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JC531 U.S. PTO

UTILITY PATENT APPLICATION TRANSMITTAL

(New Nonprovisional Applications Under 37 CFR § 1.53(b))

Attorney Docket No.

LEX-0032-USA

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is the patent application of () application identifier or (X) first named inventor, Glenn Friedrich, entitled Novel Mutated Mammalian Cells and Animals, for a(n):

(X) Original Patent Application.

() Continuing Application (prior application not abandoned):

() Continuation () Divisional () Continuation-in-part (CIP)
of prior Application No. _____, filed on _____.

(X) A statement claiming priority under 35 USC § 119 has been added to the specification.

Enclosed are:

(X) Specification; 18 Total Pages. (X) Drawing(s); 44 Total Sheets.

(X) Oath or Declaration:

() A Newly Executed Combined Declaration and Power of Attorney:

() Signed. (X) Unsigned. () Partially Signed.

() A Copy from a Prior Application for Continuation/Divisional (37 CFR § 1.63(d)).

() Incorporation by Reference. The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied, is considered as being part of the disclosure of the accompanying application and is hereby incorporated herein by reference.

() Signed Statement Deleting Inventor(s) Named in the Prior Application. (37 CFR § 163(d)(2)).

() Power of Attorney.

(X) Return Receipt Postcard.

() Associate Power of Attorney.

() A Check in the amount of \$_____ for the Filing Fee.

() Preliminary Amendment.

() Information Disclosure Statement and Form PTO-1449.

() A Certified Copy of Priority Documents (if foreign priority is claimed).

() Statement(s) of Status as a Small Entity.

() Statement(s) of Status as a Small Entity Filed in Prior Application, Status Still Proper and Desired.

(X) Other: Sequence Listing - 387 pages


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CLAIMS AS FILED

| FOR | NO. FILED | NO. EXTRA | RATE | FEE |
|--|-----------|-----------|---------|----------|
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| Independent Claims | 2 | 0 | \$78.00 | \$0.00 |
| Multiple Dependent Claim Fee (if applicable) | | | | \$0.00 |
| Assignment Recording Fee (if applicable) | | | | \$0.00 |
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Respectfully submitted,

By: 
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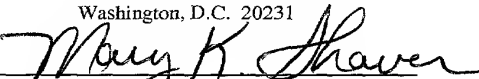
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NOVEL MUTATED MAMMALIAN CELLS AND ANIMALS

The present application claims priority to U.S. Application
5 Ser. No. 60/144,942, filed July 20, 1999, which is herein
incorporated by reference in its entirety. The present
application also incorporates U.S. Patent No. 6,080,576 and U.S.
Applications Ser. Nos. 08/726,867, 08/728,963, 08/907,598,
08/942,806, 60/109,302, and 09/276,533 and their respective
10 disclosures herein by reference in their entirety.

1.0. FIELD OF THE INVENTION

The present invention is in the field of molecular genetics.
The application discloses novel mutated cells that are generated
15 by process involving the insertion of at least a portion of a
genetically engineered viral vector into the chromosome. The
specifically disclosed recombinant vector allows for the rapid
identification of the gene that has been mutated by using
nucleotide or amino acid sequence information to identify the
20 gene that has been mutated by the vector. When mutated embryonic
stem cell clones are produced, such cells can be used to produce
mutant animals capable of germline transmission of the described
mutated genes.

25 2.0. BACKGROUND OF THE INVENTION

Most mammalian genes are divided into exons and introns.
Exons are the portions of the gene that are spliced into mRNA and
encode the protein product of a gene. In genomic DNA, these
coding exons are often divided by noncoding intron sequences.
30 Although RNA polymerase transcribes both intron and exon
sequences, the intron sequences must be removed from the
transcript so that the resulting mRNA can be translated into
protein. Accordingly, all mammalian, and most eukaryotic, cells
have the machinery to splice exons to produce mRNA. Gene trap
35 vectors have been designed to insert into the introns of genes in
a manner that allows the cellular splicing machinery to splice

vector encoded exons to cellular mRNAs. Commonly, gene trap
vectors contain selectable marker sequences that are preceded by
strong splice acceptor sequences and are not preceded by a
promoter. Thus, when such vectors integrate into a gene, the
5 cellular splicing machinery splices exons from the trapped gene
onto the 5' end of the selectable marker sequence. Typically,
such selectable marker genes can only be expressed if the vector
encoding the gene has integrated into an intron. The resulting
gene trap events are subsequently identified by selecting for
10 cells that can survive selective culture.

Gene trapping has generally proven to be an efficient method
of mutating large numbers of genes. The insertion of the gene
trap vector creates a mutation in the trapped gene, and also
provides a molecular tag for ease of identifying the gene that
15 has been trapped. When ROSA β geo was used to trap genes it was
demonstrated that at least 50% of the resulting mutations
resulted in a phenotype when examined in mice. This indicates
that the gene trap insertion vectors are useful mutagens.
Although a powerful tool for mutating genes, the potential of the
20 method has historically been limited by the difficulty in
identifying the trapped genes. Methods that have been used to
identify trap events rely on the fusion transcripts resulting
from the splicing of exon sequences from the trapped gene to
sequences encoded by the gene trap vector. Common gene
25 identification protocols used to obtain sequences from these
fusion transcripts include 5' RACE, cDNA cloning, and cloning of
genomic DNA surrounding the site of vector integration. However,
these methods have proven labor intensive, not readily amenable
to automation, and generally impractical for high-throughput.

30 More recently, vectors have been developed that rely on a
new strategy of gene trapping that uses a vector that contains a
selectable marker gene preceded by a promoter and followed by a
splice donor sequence instead of a polyadenylation sequence.
These vectors do not provide selection unless they integrate into

a gene and subsequently trap downstream exons which provide a polyadenylation sequence. Integration of such vectors into the chromosome results in the splicing of the selectable marker gene to 3' exons of the trapped gene. These vectors provide a number of advantages. They can be used to trap genes regardless of whether the genes are normally expressed in the cell type in which the vector has integrated. In addition, cells harboring such vectors can be screened using automated (e.g., 96-well plate format) gene identification assays such as 3' RACE (see generally, Frohman, 1994, PCR Methods and Applications, 4:S40-S58). Using these vectors it is possible to produce large numbers of mutations and rapidly identify the mutated, or trapped, gene by DNA sequence analysis.

15 **3.0. SUMMARY OF THE INVENTION**

The subject invention provides numerous isolated mammalian mutant cell clones that are each characterized by the insertion of a mutagenic genetically engineered polynucleotide sequence into a gene identifiable as corresponding to one or more of the OMNIBANK gene trapped sequences (GTSS) disclosed in Sequence Listing.

The subject invention further contemplates a mutated cell, and particularly a mutated ES cell, and the animals derived from such ES cell that stably maintain a genetically engineered mutation in a gene identifiable as corresponding to one of the disclosed GTSSs.

4.0. DESCRIPTION OF THE SEQUENCE LISTING AND FIGURES

The Sequence Listing is a compilation of nucleotide sequences obtained by sequencing clonal lines of gene trapped murine ES cells.

Figures 1A-1C present a diagrammatic representation of representative gene trap vectors used to generate the described sequences.

Figure 2 provides an index to the Sequence Listing and the corresponding database accession numbers for the genes that have been mutated according to the present invention.

5 **5.0. DETAILED DESCRIPTION OF THE INVENTION**

The current invention relates to novel mutated mammalian cells that are each characterized by the insertion of a recombinant (i.e., genetically engineered) mutagenic polynucleotide sequence into a gene identifiable as corresponding to one of the GTSSs of SEQ ID NOS:1-1,848.

For the purposes of the present invention, the term "identifiable" is to be construed as indicating that a mammalian cell, and preferably, a murine ES cell, has been mutated by the insertion of a polynucleotide sequence of recombinantly manipulated origin at a genetic locus that normally comprises polynucleotide sequence, and/or post-spliced exonic sequence, that is at least partially described in one of the GTSSs of Sequence Listing. One method of determining whether one of the described mutated mammalian cells has a mutation in a gene of interest is by comparing the polynucleotide sequence (or a corresponding amino acid sequence) of the GTS identifying the mutated locus to the full length sequence of the gene.

Alternatively, such searches can be conducted by comparing the described GTS sequence to a well known database (such as, but not limited to GENBANK) using established computer algorithms including, but not limited to, BLASTX, FASTA, BLASTN, BLASTP, TBLASTN, and TBLASTX using the default parameters used, for example, at the National Center for Biotechnology Information web site (www.ncbi.nlm.nih.gov). The GTSSs reported in the Sequence Listing have been compared to such a database (GENBANK), and the accession numbers of the genes that have been mutated are presented in Figure 2. Accordingly, an additional aspect of the subject invention includes mutated mammalian, preferably murine, cells, or isolated cell lines, that have at least one engineered

mutation in a gene identified by GENBANK or GENESEQ (for example) accession number in Figure 2.

As used herein, the terms "mutated" or "mutation" mean that the genetic locus has been altered by a process involving the integration or incorporation of a genetically engineered polynucleotide sequence into the genome of the cell with the result that the subsequent levels of activity of the product normally encoded by the locus is altered (*i.e.*, reduced, increased, or substantially ablated). In those instances where the mutation substantially completely disrupts the expression or activity of the product normally encoded by the locus (*i.e.*, a null mutation), a cell that is heterozygous for the mutated allele will typically produce about one half of the product of a nonmutated cell (via a gene dosage effect), and about twice the amount of product produced by a cell that is homozygous for the mutant allele.

The term "recombinantly manipulated" shall mean that such compositions comprising such molecules or polynucleotides have been genetically engineered using molecular biology methodologies *in vitro* or *ex vivo* (see generally, Sambrook *et al.*, 1989, Molecular Cloning, A Laboratory Manual, Cold Springs Harbor Press, N.Y.; and Ausubel *et al.*, 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y.).

Where, the specifically exemplified mammalian cells, *i.e.*, embryonic stem cells (Lex-1 cells from murine strain A129), are mutated by a process involving the insertion of at least a portion of a genetically engineered vector sequence into the gene of interest, the mutated embryonic stem cells can be microinjected into blastocysts which are subsequently introduced into pseudopregnant female hosts and carried to term using established methods such as those described in, for example, "Mouse Mutagenesis", 1998, Zambrowicz *et al.*, eds., Lexicon Press, The Woodlands, TX, and periodic updates thereof, herein

incorporated by reference. The resulting chimeric animals are subsequently bred to produce offspring capable of germline transmission of an allele containing the engineered mutation in the gene of interest.

5 An alternative method of producing mutated cells and animals in the specifically exemplified genes involves the process of gene targeting by homologous recombination using methods such as those exemplified in U.S. Application Ser. No. 09/171,642, which is herein incorporated by reference in its entirety. Mutations
10 produced using such methods include, but are not limited to knockout mutations, "knockin" mutations (where a human gene, for example, is used to replace its murine orthologs), can be conditional, can include point mutations, and mutations that activate gene expression. Some of the mutations described above
15 (conditional mutations, point mutations, etc.) can be produced via processes that involve the substantial removal of vector encoded sequences (often recombines mediated) subsequent to the incorporation of the recombinantly manipulated sequences into the genome.

20

5.1. MUTATED MAMMALIAN CELLS OF THE PRESENT INVENTION

The presently described mutated cells have genetically engineered mutations in genes identifiable as corresponding to, or normally comprising, at least a portion of a sequence reported in the
25 Sequence Listing as SEQ ID NOS:1-1,848. Additional embodiments of the present invention are cells comprising engineered mutations in homologs, paralogs, orthologs, etc., of the mutated genes disclosed in the Sequence Listing. Such homologs, paralogs, and orthologs include genes having sequences that
30 hybridize to one or more of the disclosed GTSS of SEQ ID NOS:1-1,848 under stringent, or preferably highly stringent, conditions. Hybridization conditions also provide an alternative means of identifying the mutated genes corresponding to the GTSS reported in the sequence listing. Typically, such genes will

identifiable because a disclosed GTS, or portion thereof, shall hybridize to the gene under stringent conditions.

By way of example and not limitation, high stringency hybridization conditions can be defined as follows:

- 5 Prehybridization of filters containing DNA to be screened is carried out for 8 h to overnight at 65°C in a buffer containing 6X SSC, 50mM Tris-HCl (pH 7.5), 1mM EDTA, 0.02% PVP, 0.02% Ficoll, 0.02% BSA, and 500 µg/ml denatured salmon sperm DNA. Filters are hybridized for 48 h at 65°C in prehybridization
- 10 mixture containing 100µg/ml denatured salmon sperm DNA and 5-20 x 10⁶ cpm of ³²P-labeled probe (alternatively, as in all hybridizations described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used). The filters are then washed in approximately
- 15 1X wash mix (10X wash mix contains 3M NaCl, 0.6M Tris base, and 0.02M EDTA, alternatively, as with all washes described herein, 2X, 3X, 4X, 5X, 6X wash mix, or more, can be used) twice for 5 minutes each at room temperature, then in 1X wash mix containing 1% SDS at 60°C (alternatively, as in all washes described herein,
- 20 approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min, and finally in 0.3X wash mix (alternatively, as in all final washes described herein, approximately, 0.2X, 0.4X, 0.6X, 0.8X, 1X, or any concentration between about 2X and about 6X can be
- 25 used in conjunction with a suitable wash temperature) containing 0.1% SDS at 60°C (alternatively, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min. The filters are then air dried and exposed to x-ray film for autoradiography. In an
- 30 alternative protocol, washing of filters is done for 37°C for 1 h in a solution containing 2X SSC, 0.01% PVP, 0.01% Ficoll, and 0.01% BSA. This is followed by a wash in 0.1X SSC at 50°C for 45 min before autoradiography. Another example of hybridization under highly stringent conditions is hybridization to filter-

bound DNA in 0.5 M NaHPO₄, 7% sodium dodecyl sulfate (SDS), 1 mM EDTA at 65°C, and washing in 0.1xSSC/0.1% SDS at 68°C (Ausubel F.M. et al., eds., 1989, Current Protocols in Molecular Biology, Vol. I, Green Publishing Associates, Inc., and John Wiley & sons, Inc., New York, at p. 2.10.3).

Alternatively, moderately stringent conditions can be used (e.g., washing in 0.2xSSC/0.1% SDS at 42° C (Ausubel et al., 1989, *supra*). Moderately stringent conditions can be additionally defined, for example, as follows: Filters containing DNA are pretreated for 6 h at 55°C in a solution containing 6X SSC, 5X Denhart's solution, 0.5% SDS and 100 µg/ml denatured salmon sperm DNA. Hybridizations are carried out in the same solution and 5-20 x 10⁶ cpm ³²P-labeled probe is used. Filters are incubated in hybridization mixture for 18-20 h at 55°C (alternatively, as in all hybridizations described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used in combination with a suitable concentration of salt). The filters are then washed in approximately 1X wash mix (10X wash mix contains 3M NaCl, 0.6M Tris base, and 0.02M EDTA, alternatively, as with all washes described herein, 2X, 3X, 4X, 5X, 6X wash mix, or more, can be used) twice for 5 minutes each at room temperature, then in 1X wash mix containing 1% SDS at 60°C (alternatively, as in all washes described herein, approximately, 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min, and finally in 0.3X wash mix (alternatively, as in all final washes described herein approximately 0.2X, 0.4X, 0.6X, 0.8X, 1X, or any concentration between about 2X and about 6X can be used in conjunction with a suitable wash temperature) containing 0.1% SDS at 60°C (alternatively, approximately 42, 44, 45, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min. The filters are then air dried and exposed to x-ray film for autoradiography.

In an alternative protocol, washing of filters is done twice for 30 minutes at 60°C in a solution containing 1X SSC and 0.1% SDS. Filters are blotted dry and exposed for autoradiography.

Other conditions of moderate stringency which may be used are well-known in the art. For example, washing of filters can be done at 37°C for 1 h in a solution containing 2X SSC, 0.1% SDS. Another example of hybridization under moderately stringent conditions is washing in 0.2xSSC/0.1% SDS at 42°C (Ausubel et al., 1989, *supra*). Such less stringent conditions may also be, for example, low stringency hybridization conditions. By way of example and not limitation, procedures using such conditions of low stringency are as follows (see also Shilo and Weinberg, 1981, Proc. Natl. Acad. Sci. USA 78:6789-6792): Filters containing DNA are pretreated for 6 h at 40°C in a solution containing 35% formamide, 5X SSC, 50mM Tris-HCl (pH 7.5), 5mM EDTA, 0.1% PVP, 0.1% Ficoll, 1% BSA, and 500 µg/ml denatured salmon sperm DNA. Hybridizations are carried out in the same solution with the following modifications: 0.02% PVP, 0.02% Ficoll, 0.2% BSA, 100µg/ml salmon sperm DNA, 10% (wt/vol) dextran sulfate, and 5-20 X 10⁶ cpm ³²P-labeled probe is used. Filters are incubated in hybridization mixture for 18-20 h at 40°C (alternatively, as in all hybridizations described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used). The filters are then washed in approximately 1X wash mix (10x wash mix contains 3M NaCl, 0.6M Tris base, and 0.02M EDTA, alternatively, as with all washes described herein, 2X, 3X, 4X, 5X, 6X wash mix, or more, can be used) twice for five minutes each at room temperature, then in 1X wash mix containing 1% SDS at 60°C (alternatively, as in all washes described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min, and finally in 0.3X wash mix (alternatively, as in all final washes described herein, approximately, 0.2X, 0.4X, 0.6X, 0.8X, 1X, or any concentration

between about 2X and about 6X can be used in conjunction with a suitable wash temperature) containing 0.1% SDS at 60°C (alternatively, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min. The filters are then air dried and exposed to x-ray film for autoradiography. In yet another alternative protocol, washing of filters is done for 1.5 h at 55°C in a solution containing 2X SSC, 25mM Tris-HCl (pH 7.4), 5mM EDTA, and 0.1% SDS. The wash solution is replaced with fresh solution and incubated an additional 1.5 h at 60°C. Filters are then blotted dry and exposed for autoradiography. If necessary, filters are washed for a third time at 65-68°C and reexposed to film. Other conditions of low stringency which may be used are well known in the art (e.g., as employed for cross-species hybridizations). Preferably, GTS variants identified or isolated using the above methods will also encode a functionally equivalent gene product (i.e., protein, polypeptide, or domain thereof, encoding or otherwise associated with a function or structure at least partially encoded by the complementary GTS).

Low stringency conditions are well known to those of skill in the art, and will vary predictably depending on the specific organisms from which the library and the labeled sequences are derived. For guidance regarding such conditions see, for example, Sambrook *et al.*, 1989, *Molecular Cloning, A Laboratory Manual*, Cold Springs Harbor Press, N.Y.; and Ausubel *et al.*, 1989, *Current Protocols in Molecular Biology*, Green Publishing Associates and Wiley Interscience, N.Y.

The identification of homologs, heterologs, or paralogs of SEQ ID NOS:1-1,848 in other, preferably related, species can be useful for developing additional animal model systems that are closely related to humans for purposes of drug discovery. Genes at other genetic loci within the genome that encode proteins which have extensive homology to one or more domains of the gene products encoded by SEQ ID NOS:1-1,848 can also be identified via

similar techniques. In the case of cDNA libraries, such screening techniques can identify clones derived from alternatively spliced transcripts in the same or different species.

5 Techniques useful to disrupt a gene in a cell and especially an ES cell that may already have a disrupted gene are disclosed in copending US patent applications Nos. 08/726,867; 08/728,963; 08/907,598; and 08/942,806, all of which are hereby incorporated herein by reference in their entirety, are within the scope of
10 the current invention to disrupt a gene that encodes a polynucleotide of the current invention.

5.2. USES OF THE DESCRIBED MUTATED GENES AND ANIMALS

The described mutated cells and animals are used to
15 investigate and define the cellular and biological functions of the mutated genes. Producing a scientific model that accurately accounts for the large number of genes, proteins, and macromolecules within a single cell has thus far proved beyond the capabilities of existing computer technology. It should thus
20 not be surprising that the far more complex task of modeling the various intricacies, cross and direct redundancies, and interrelated functions of the various metabolic and catabolic processes that occur within a single cell has also proven largely intractable to algorithmic methods of modeling and prediction.
25 Even if one assumes that computer modeling of inherently chaotic/heuristic processes will rapidly mature in the near future, such methods, at best, can only provide predictions that subsequently require practical validation. Several decades of empirical data have proven that mutant phenotypes provide a
30 valuable source of such validation.

The mutated diploid mammalian cells of the present invention will initially exist as mutated diploid cells that are heterozygous (except where genes on the X or Y chromosomes are mutated) for the mutations identified in the sequence listing.

As such, via a "gene dosage" effect, the mutated cells can typically be characterized by the fact that they produce about one half of the mutated transcript/activity relative to cells having two nonmutated or wild type copies of the corresponding gene.

When mutant animals are produced from the mutated cells, heterozygous animals capable of germline transmission of the mutated allele can be bred to produce embryos or offspring that are homozygous for the mutant allele. Such animals or embryos are a rich source of tissues and cells that do not express physiologically relevant amounts of the mutated genes or activities encoded thereby. Accordingly, an additional embodiment of the present invention are mutant cells and animals that have homozygous mutations in genes identifiable as corresponding to the GENBANK, or other database accession, numbers provided in Figure 2, or are identifiable as a homologs, paralog, or orthologs of a sequence provided in the Sequence Listing.

In addition to providing important information regarding the functional role of a given gene in its nonmutated state (*i.e.*, you learn about the function of the gene by discerning the effects of reducing or ablating the activity normally encoded by the gene), the described mutated cells and animals can be used as disease models, or in assays for compounds or genes (via gene delivery or transgenic methods) that compensate for the mutant phenotype and that can be used to treat diseases and disorders related to the observed phenotype. Alternatively, such products and genes can also be used to enhance desirable, if not normal, symptoms related to the observed phenotypes.

The gene replacement/delivery therapies described above should be capable of delivering gene sequences to the cell types within patients which express the peptide or protein having the desired activity.

The examples below are provided to illustrate the subject invention. These examples are provided by way of illustration and are not included for the purpose of limiting the invention in any way whatsoever.

5

6.0. EXAMPLES

6.1. GENERATION OF A LIBRARY OF MUTATED MOUSE ES CELLS DEFINED BY OST SEQUENCES

10 The retroviral vector VICTR 3, described in detail in U.S. application Ser. No. 08/728,963, filed October 11, 1996, was used to generate a library of gene trapped ES cell clones that represent a portion of the described OSTs. A plasmid containing the VICTR 3 cassette was constructed by conventional cloning
15 techniques and designed to employ the features described above. Namely, the cassette contained a *PGK* promoter directing transcription of an exon that encodes the *puro* marker and ends in a canonical splice donor sequence. At the end of the puromycin exon, sequences were added as described that allow for the
20 annealing of two nested PCR and sequencing primers. The vector backbone was based on pBluescript KS+ from Stratagene Corporation.

The plasmid construct was linearized by digestion with *Sca* I which cuts at a unique site in the plasmid backbone. The plasmid
25 was then transfected into the mouse ES cell line AB2.2 by electroporation using a BioRad Genepulser apparatus. After the cells were allowed to recover, gene trap clones were selected by adding puromycin to the medium at a final concentration of 3 $\mu\text{g/ml}$. Positive clones were allowed to grow under selection for
30 approximately 10 days before being removed and cultured separately for storage and to determine the sequence of the disrupted gene.

Total RNA was isolated from an aliquot of cells from each of 18 gene trap clones chosen for study. Five micrograms of this
35 RNA was used in a first strand cDNA synthesis reaction using the

"RS" primer. This primer has unique sequences (for subsequent PCR) on its 5' end and nine random nucleotides or nine T (thymidine) residues on its 3' end. Reaction products from the first strand synthesis were added directly to a PCR with outer primers specific for the engineered sequences of puromycin and the "RS" primer. After amplification, an aliquot of reaction products were subject to a second round of amplification using primers internal, or nested, relative to the first set of PCR primers. This second amplification provided more reaction product for sequencing and also provided increased specificity for the specifically gene trapped DNA.

The products of the nested PCR were visualized by agarose gel electrophoresis, and seventeen of the eighteen clones provided at least one band that was visible on the gel with ethidium bromide staining. Most gave only a single band which is an advantage in that a single band is generally easier to sequence. The PCR products were sequenced directly after excess PCR primers and nucleotides were removed by filtration in a spin column (Centricon-100, Amicon). DNA was added directly to dye terminator sequencing reactions (purchased from ABI) using the standard M13 forward primer a region for which was built into the end of the *puro* exon in all of the PCR fragments.

Subsequent studies have used both VICTR 3 and VICTR 20. Like VICTR 3, VICTR 20 is exemplary of a family of vectors that incorporate two main functional units: a sequence acquisition component having a strong promoter element (phosphoglycerate kinase 1) active in ES cells that is fused to the puromycin resistance gene (or other exon sequence) that is followed by a synthetic consensus splice donor (SD) sequence and lacks an operatively positioned polyadenylation sequence downstream from the SD sequence (PGKpuroSD); and 2) a mutagenic component that incorporates a splice acceptor sequence fused to a selectable and/or colorimetric marker gene and followed by a polyadenylation

sequence (for example, SA β geopA, SAnepA, SAIRESnepA, or SAIRE β geopA).

Also like VICTR 3, stop codons have been engineered into all three reading frames in the region between the 3' end of the
5 selectable marker and the splice donor site. A diagrammatic description of structure and functions of VICTRs 3 and 20 is provided in Figure 1.

When VICTRs 3, 20, and various variations thereof such as the vectors and methods described in U.S. Applications Ser. Nos.
10 09/276,533, and 60/095,989 (the disclosures of which are herein incorporated by reference), were used in the commercial scale application of the presently disclosed invention, many mutagenized ES cell clones were rapidly engineered and obtained. Sequence analysis obtained from these clones has identified a
15 wide variety of sequences. Each of the sequences presented in SEQ ID NOS:1-1,848 identify novel mutations in the coding regions of mammalian genes that identifiable as corresponding to the sequences presented in the Sequence Listing. Alternatively, the described mutated cells are described by the database (GENBANK,
20 GENSEQ, etc.) accession numbers for the corresponding genes that have been mutated (see Figure 2). The described mutated cells, and preferably ES cells, provide a valuable resource for defining, evaluating, or validating the biological function or disease/pharmaceutical relevance of each of these genes.

25 The cloned 3' RACE products resulting after the target ES cells were infected with one of the described gene trap vectors were purified using conventional column chromatography, (e.g., S300 and G-50 columns), and the products were recovered by centrifugation. Purified PCR products were quantified by
30 fluorescence using PicoGreen (Molecular Probes, Inc., Eugene Oregon) as per the manufacturer's instructions.

Dye terminator cycle sequencing reactions with AmpliTaq® FS DNA polymerase (Perkin Elmer Applied Biosystems, Foster City, CA) were carried out using approximately 7 pmoles of sequencing

primer, and approximately 30-120 ng of 3' template.

Unincorporated dye terminators were removed from the completed sequencing reactions using G-50 columns as described above. The reactions were dried under vacuum, resuspended in loading buffer, and electrophoresed through a 6% Long Ranger acrylamide gel (FMC BioProducts, Rockland, ME) on an ABI Prism® 377 with XL upgrade as per the manufacturer's instructions. The sequences of the resulting amplicons, or OSTs, are described in SEQ ID NOS:1-1,848.

- 10 All publications and patents mentioned in the above specification are herein incorporated by reference. Various modifications and variations of the described method and system of the invention will be apparent to those skilled in the art without departing from the scope and spirit of the invention.
- 15 Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. Indeed, various modifications of the above-described modes for carrying out the invention which are
- 20 obvious to those skilled in the field of molecular biology or related fields are intended to be within the scope of the following claims.

CLAIMS

WHAT IS CLAIMED IS:

1. A genetically engineered mammalian cell that has been
5 mutated by a process comprising the insertion of a recombinantly
manipulated polynucleotide sequence into a gene in said
genetically engineered mammalian cell wherein said gene is
identifiable as corresponding to at least one of SEQ ID NOS:1-
1,848.

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2. The genetically engineered mammalian cell of Claim 1,
wherein said cell is murine.

3. A cell according to Claim 3, wherein said cell is an
15 embryonic stem cell.

4. The genetically engineered mammalian cell of Claim 1,
wherein said polynucleotide sequence is present on a viral
vector.

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5. A cell according to Claim 4, wherein said viral vector
is a retroviral vector.

6. A cell according to Claim 4, wherein said viral vector
25 additionally comprises regions of targeting DNA that facilitate
gene targeting by homologous recombination.

7. An isolated murine embryonic stem cell line comprising
an engineered retroviral gene trap vector in at least one gene
30 comprising a polynucleotide sequence first disclosed in one of
SEQ ID NOS:1-1,848.

ABSTRACT

Novel mutated mammalian cells are provided that have been characterized by identifying the sequence of the genes that have been mutated. Preferably, novel mutated cells are murine ES
5 cells that stably incorporate retroviral gene trap constructs in the specifically identified genes. The novel mutated cells and animals are useful in functional genomic analysis, and in the discovery and development of new therapeutic and diagnostics agents and methods.

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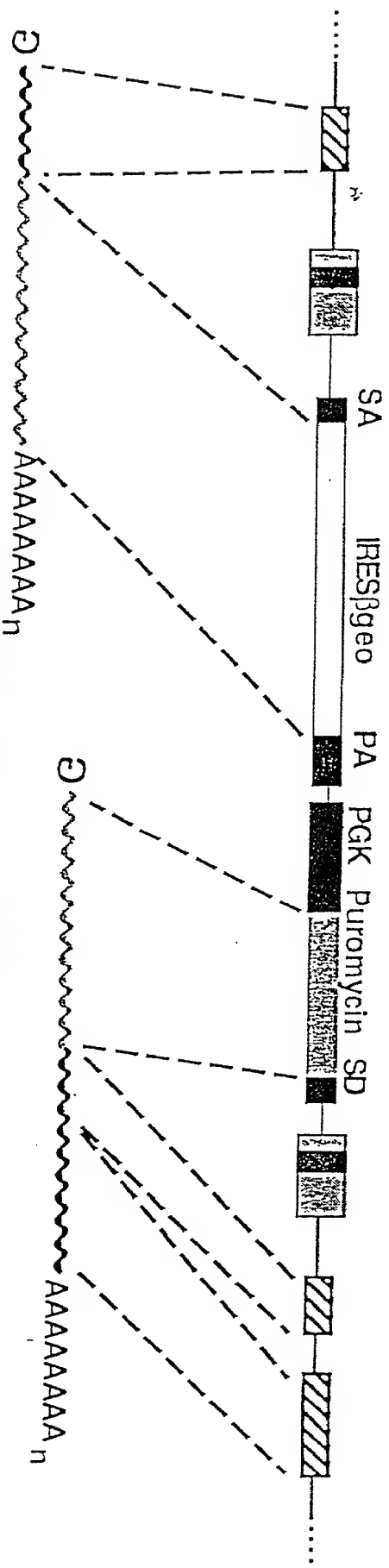
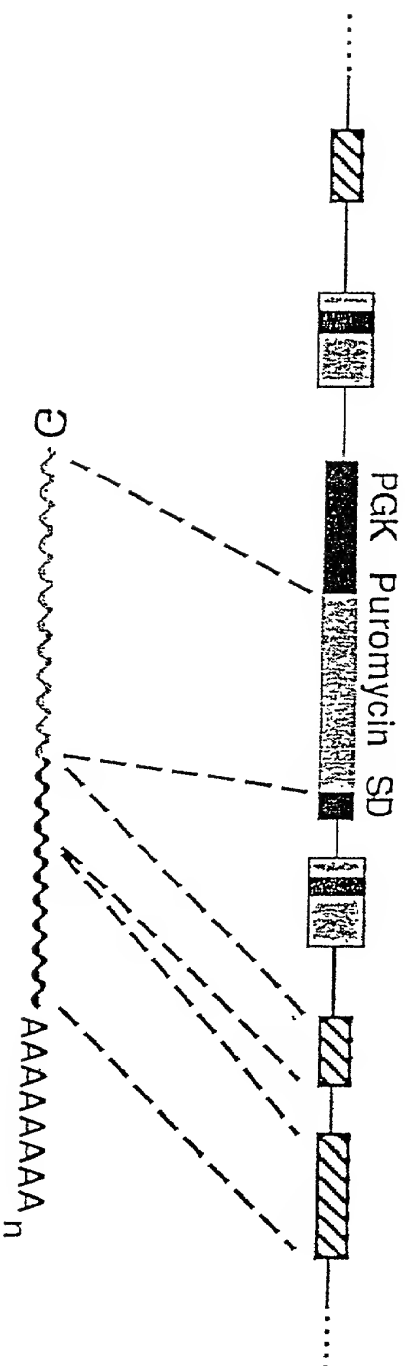
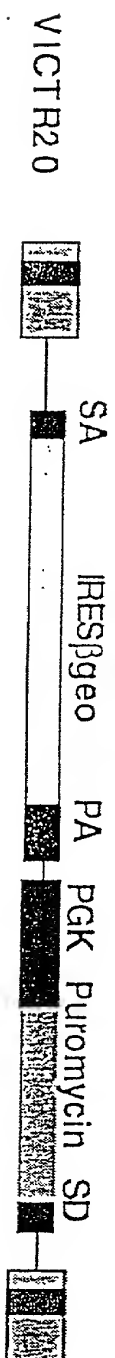
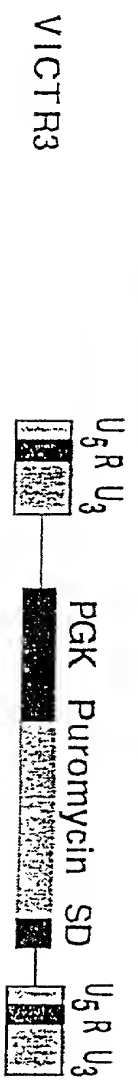


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OST16406 OC4188 (Similar To: AA269808) Thu Jul 15 14:40:47 1999
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OST84438 OC16657 (Similar To: S71345) Thu Jul 15 14:40:47 1999

PATENT APPLICATION

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY DOCKET NO. LEX-0032 USA

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Novel Mutated Mammalian Cells and Animals

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____ as US Application Serial No. or PCT International Application
Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

| COUNTRY | APPLICATION NUMBER | DATE FILED | PRIORITY CLAIMED UNDER 35 U.S.C. 119 |
|---------|--------------------|------------|--------------------------------------|
| | | | YES NO |
| | | | YES NO |

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

| APPLICATION SERIAL NUMBER | FILING DATE |
|---------------------------|-------------|
| 60/144,942 | 07/20/99 |
| | |

U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| APPLICATION SERIAL NUMBER | FILING DATE | STATUS(patented/pending/abandoned) |
|---------------------------|-------------|------------------------------------|
| | | |
| | | |
| | | |

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) listed below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Lance K. Ishimoto, Reg. No. 41866

| Send Correspondence to: | Direct Telephone Calls To: |
|---|-------------------------------------|
| Lance K. Ishimoto Lexicon Genetics Incorporated 4000 Research Forest Drive The Woodlands, TX 77381 | Lance K. Ishimoto (281) 362-6554 |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Glenn Friedrich Citizenship: Canada

Residence: Houston, Texas

Post Office Address: Same

Inventor's Signature

Date

Full Name of Inventor: Brian Zambrowicz Citizenship: USA

Residence: 18 Firethorne Place, The Woodlands, TX 77382

Post Office Address: Same

Inventor's Signature

Date

Full Name of Inventor: Arthur T. Sands Citizenship: USA

Residence: 163 Bristol Bend Circle, The Woodlands, TX 77382

Post Office Address: Same

Inventor's Signature

Date

SEQUENCE LISTING

<110> Friedrich, Glenn
Zambrowicz, Brian
Sands, Arthur T.

<120> Novel Mutated Mammalian Cells and Animals

<130> LEX-0032-USA

<150> 60/144,942

<151> 1999-07-20

<160> 1848

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<210> 1

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| acgattat | ttt | g | cg | gacc | agt | cg | ggac | cttg | ac | cttg | atct | gat | ccna | aga | ca | acnc | naaa | 60 | |
| aaatgg | tctc | nt | ttct | ctctg | aaa | acca | agg | ag | t | aa | at | atc | aca | act | tacc | aaa | agtt | gaa | 120 |
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<210> 2

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<400> 2

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| gggcct | gggt | ctc | agag | gca | ttt | ggc | aaag | tga | agg | agaa | gtt | gaag | acc | acg | ttct | ctct | 60 | |
| gag | cac | ctg | cg | ggcc | acct | cga | agcat | ca | agg | acat | cca | cg | ta | atgt | gc | cagg | tcctc | 120 |
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<210> 3

<211> 285

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<400> 3

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| gaga | atgg | ta | cc | cc | acac | tn | nac | cc | nc | tn | ctgt | nnnt | at | gt | ct | atat | aa | at | gta | ata | 60 | | |
| cn | nt | gt | ag | cc | tn | gt | cn | ga | ac | act | an | ac | nag | gg | cn | cc | aa | at | ct | catt | gtg | 120 | |
| aa | cc | ac | cc | ac | cat | gt | gg | ttg | ct | ggg | attt | g | aa | act | nc | agg | gat | ctt | cc | ag | gaaa | aa | 180 |
| gt | cc | ag | gg | gg | ct | ct | ta | aa | acc | cg | ctt | ga | agc | cc | at | ctt | ctc | cc | aag | cc | nn | c | 240 |
| tt | cc | ttt | tn | cc | tt | naa | ag | ggg | gc | att | g | gaa | ttg | ga | at | ccc | cc | ca | | | | 285 | |

<210> 4

<211> 236

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<213> Mus musculus

<400> 4

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| cc | ac | act | cca | ag | tc | gt | cn | cc | aa | cc | cc | cc | cc | cc | ct | gt | cc | cn | cc | ct | nc | cn | gn | cc | cc | ct | 60 |
|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| gtgttggaat | attggaccnc | agngaccttc | ccnnnnctgn | accannccctt | ggtggctgat | 120 |
| ctccttaaaa | anaagtggac | tctgtgttcc | ggaactttgn | acntgaatgg | ggacagtctn | 180 |
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<210> 5
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|------------|------------|------------|------------|------------|------------|-----|
| <400> 5 | | | | | | |
| gcacatgcct | ctggcacacc | ttcntggatc | tnccacanc | aganggaccc | aactgctcct | 60 |
| cgctccacgg | cggctcctgc | acttgcacca | actcctgcgc | ctgcaanaac | tgnaantgcn | 120 |
| cctcctgcaa | naaaaatgct | gctcctgctg | tcccgtgggn | tgctccaaat | gtncaccagg | 180 |
| ctgtnttntg | cnaaggngcc | ncggganaaa | tgacagtgtc | gtgcctgatg | tgacaaacag | 240 |
| cgctgccacc | acgtgtaaat | agtatcggac | caaccacagc | tcttcctata | cagttccacc | 300 |
| ctgtttacta | aacccccgtt | ttctaccgag | tacgtgaata | ataaaagcct | gtttga | 356 |

<210> 6
 <211> 224
 <212> DNA
 <213> Mus musculus

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|-------------|------------|------------|------------|------------|------------|-----|
| <400> 6 | | | | | | |
| tcaggctcctg | gagaaaaana | ggncancanc | ccctggaatt | cgctttctga | tcctctgaat | 60 |
| gtttncctt | ggacagagag | ccaccaccca | tttgcgtgcc | acttacacag | ttaaacaaaa | 120 |
| gctatgtcga | gttctactgc | aaanggtgtg | tcctaaggaa | gcaaacaata | ccctnagcta | 180 |
| tncagggtgga | aaaatcctac | tagagaaaaa | gtcacttgat | tttt | | 224 |

<210> 7
 <211> 336
 <212> DNA
 <213> Mus musculus

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| <400> 7 | | | | | | |
| aaattcaagg | tgtctacnn | tggcnaggtg | actgtggctc | acaacaacgc | cccaacgcac | 60 |
| nnagggacaa | ntgtctcgaa | aanttcaacc | atgtgagntg | tantcgntca | acngactggg | 120 |
| aaancnccca | acgggntngc | natntcgctc | ctngcccent | gcccatgcag | cctntccttc | 180 |
| tcaaagactg | gactgcgctc | gctggccntc | atgaaangag | tnccaggaag | ctagnctccg | 240 |
| cnccttannac | ctttagntcc | tttgacantg | acattataaa | accnccctcct | ctgtggggcac | 300 |
| aatgtgggtc | ancccaacng | acatggaagg | aaaacc | | | 336 |

<210> 8
 <211> 530
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|-----|
| <400> 8 | | | | | | |
| gagggcttgc | ccaagangct | taggaaagcc | tcttcaactta | nttattccan | nccancncaa | 60 |
| gnangtaocg | tgncagcagg | tgacttcacc | ccaactgtgg | ttcncacat | gcctaggcnt | 120 |
| gaaaancacn | ncagccgncn | atanctctgc | gcccctgcta | catcttctgg | tgatatcatc | 180 |
| tnggggggccc | ntggctgtgc | ctntgtcctt | gggacaaggc | cgccacgct | gggcttgta | 240 |
| tgacactggg | ggggctcngc | ttccctctgc | tgaaccancc | catcctgggtg | ttngctgcta | 300 |
| cnaaggccac | tctgttcnng | ctcngggncg | ncctaaaaaca | ctcctttcct | gggnngncca | 360 |
| cantaaggct | cttaacaccn | atngnggggg | gaaaaggccn | ggngntncaa | ttccctcctt | 420 |
| gccttggggc | ttggntcctc | gggggnttnt | gggctttgnt | gcaaaagncc | ccccaaagaa | 480 |
| ccccctgngc | ctngnctttc | tgccatcaan | gtgctgtctc | atcttctcct | | 530 |

<210> 9

<211> 582
 <212> DNA
 <213> Mus musculus

<400> 9
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 aagccccata gagagatccg aagacacact cacccttcc cgcctatctt tccggtgctt 120
 cagctactgc gcttgccgag cctcaccggg cggggtagag agggccgcct cgacgtctct 180
 tgtatcatag agacggactc tcgctcccgc agggaggactc aggcagcctg agattcctta 240
 gcgaatgtga gcgtctggga aaaggtcttg ctagccagga ttccggcaaa aaaccctcca 300
 gtttccttcc catcccttct aaggtctcta gagtctgaca cccgtctgga tccaaccctt 360
 ttcagtttagg ctgtagggtc tcgaactcgg ccgcttgtag acaattttaa ggctttccac 420
 aatgcattctg cagcttccgc tacggcacgg gctctacaga agttggccgc cttgcttagg 480
 tgaggttttt attcccggag acttgaagga ccgacgtggc actcacattt ggtgggcggg 540
 tatttgtgga ggatttgccg gaaataaaaa tgtgtcacct ac 582

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 <211> 356
 <212> DNA
 <213> Mus musculus

<400> 10
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 tcnnggccacg ctncocangc tggatgaaga tnagctgtan ccccaaaagt gcactgctat 120
 ngggcagang catccattcc tcantgaatt tggacgggga atcctgtgaa atntgccatc 180
 aatccatcct ccatganntn tntangatgg gaaatactgg gcctgaanag gacnctntnc 240
 tgcccannng acacgggata cgctccttctn gttcccngca tgcncncaa cccactcaaa 300
 tgtgaaggat atgnangagc ttggagggac gatgnaagnc ctgggaccgc atggag 356

<210> 11
 <211> 253
 <212> DNA
 <213> Mus musculus

<400> 11
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 tactcttgta ctntctggaa cnctgtntgt ccatncaacc ctgtccttcc nacctngcaa 120
 nancaggta caantgtan ccagcaatgn aagggtgctc cntcaaccct gganccttct 180
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 gagggttccct gaa 253

<210> 12
 <211> 112
 <212> DNA
 <213> Mus musculus

<400> 12
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 aagcatcttt ggcctattat tcancagcaa gatggcttga agaaaaaat aa 112

<210> 13
 <211> 383
 <212> DNA
 <213> Mus musculus

<400> 13
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 anaggcaaa ctgcctcttc catgccccac catgcggacc anaggcaaca tgcctggagc 120

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctatgttcan | caacccttgc | tcccagtg | gagtttctaa | aaaggcagcc | ccactcctca | 180 |
| nangetggg | tcccaaaacc | caggcctctt | ctgtganatt | cnnantggga | atttctaaan | 240 |
| aggcanccat | cctcaatgct | gggtcccato | cagggcctct | tctgtganat | tcctgtncn | 300 |
| nnnncctgg | gcggcnaana | tttttttnaa | agnggggggg | ggggggcccc | ccccccccc | 360 |
| cccctnngg | gggggggggg | ggg | | | | 383 |

<210> 14
 <211> 151
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-----------|-----|
| <400> 14 | | | | | | |
| taagaaaaat | gttattactt | gaaatngatc | ngtgaatg | aaagaangcc | aggaatat | 60 |
| atgatgacac | tctctgctng | ggcttcactt | acggtatgtg | ggcanacaca | gcaaacaac | 120 |
| cttcttcatt | ttttttttcc | tcttttgaac | c | | | 151 |

<210> 15
 <211> 207
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 15 | | | | | | |
| ggcccagatg | cttctgggct | acaccagttc | ctgtttcgat | gtgangtttt | gaaatgctcc | 60 |
| gtgaagggct | gagggacggc | aggaagatgg | cgggagccag | gcagtaccaa | cttcctggcg | 120 |
| aagaagccaa | gatggagact | gagaagtgtt | tggggaagag | ccaaaataaa | gagcaataaa | 180 |
| ataagccgtc | cacgggaaaa | aaaaaaa | | | | 207 |

<210> 16
 <211> 131
 <212> DNA
 <213> Mus musculus

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|------------|------------|------------|------------|------------|------------|-----|
| <400> 16 | | | | | | |
| aagaaggtga | tgcccagaca | gaaaaaancc | ngccctcnga | gacaaaagaa | gtgggacng | 60 |
| aaccnactga | agaaaaagac | tggacctgat | naagaagacg | ttggaagaaa | gatgcttccg | 120 |
| atgactttaa | t | | | | | 131 |

<210> 17
 <211> 393
 <212> DNA
 <213> Mus musculus

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|------------|------------|------------|------------|------------|------------|-----|
| <400> 17 | | | | | | |
| ctcgtctctg | tactcgnact | gcnagttgaa | tccggagtct | cctgctatgc | aaacatctac | 60 |
| cctngattgt | aanaggacnn | caatgcgttt | ctcaaaccoc | tatgtnaang | ccnctctcca | 120 |
| ncancgaggg | gcggcgtctg | aagaaacgga | agacctccat | taagaaaaac | acactgaacc | 180 |
| ccacgtncna | cnaggccctg | gtgttcgacg | tggctcccga | nagcgtggag | aacgtgggtc | 240 |
| tcagcatcgc | agtggtaaac | tatgactgca | tcggccacaa | tgaaatgac | gggtgtgccc | 300 |
| ccgtgggtcc | cnaangctgc | cgaccacac | ggcagganaa | cactgggcag | anatgctggc | 360 |
| taaccgcgcg | aagcctgtgg | aacactggca | cca | | | 393 |

<210> 18
 <211> 148
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|----|
| <400> 18 | | | | | | |
| agaatcagca | tgctcagctct | taagctactg | ctccagctcc | atgcctgccg | gcctgccacc | 60 |

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ctttatttta taatttgaaa aaaaaaaa 148

<210> 19
<211> 101
<212> DNA
<213> Mus musculus

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accaataaaa tgcttatgtc catttccacc atccaaaaaa g 101

<210> 20
<211> 385
<212> DNA
<213> Mus musculus

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gtgtatgggg gcagtcaccc tgaaccggc cgctgattct tttgacatca gctgtaacga 180
gcctgtgtgca cagccctttc ggttcaagaa aatttcccgg ctggctggac ttctccgcaa 240
aggtggggag aagattgggtg aaaagcttaa gaaaattggc cagaaaatta agaatttttt 300
tcagaaactt gtacctcagc cggagcagta ggctgcctt ggctgtttc tggattccta 360
aaataataaa cttggtaaaa gaaaa 385

<210> 21
<211> 256
<212> DNA
<213> Mus musculus

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tntgcaagan gaaacanaaa gcctctccac ccangcctgg aatgtttcca nccnttgtcn 120
agnaaaccca cncagcgtct tgtcatgnc gaattggaac acgentatgc nctccgggcg 180
gcncgggtcc caggtccact tcgcatatta aggtgacgcn tgtggcctcg aacaccgagc 240
gacctgcag cgaccc 256

<210> 22
<211> 326
<212> DNA
<213> Mus musculus

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tctggagagc gtataagcgc atgccgctgt ggacttttca ncgatgtcat gctgacaaac 120
tgactnanca ngagttaccc acacangan cggacatnca tnttactgc agaccagaa 180
gacgtgacgg gagaccagga aacgtctgcc tcgctgactt actatattcc cttggatgta 240
ctgatcaggc tacattccgc caagtcaaaa acgttgagag aaaaaaatgt ctaataattt 300
cctctgataa tcaccaaaaa ttacaa 326

<210> 23
<211> 161
<212> DNA
<213> Mus musculus

<400> 23
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| | |
|--|-----|
| tgtccaangg aanttccctgt cgtgcatcan cctctctctc tncagtcgct naaactctca | 120 |
| tcnactacan nantgancaac ttctccctcg cgtccctcc c | 161 |

<210> 24
 <211> 147
 <212> DNA
 <213> Mus musculus

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|--|-----|
| <400> 24 | |
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| aaacnchnngt tngataaang taaaatange ctntctatgg accctcggtg ttgnnatgc | 120 |
| ccaatgggga tcttgaaaag cgcccat | 147 |

<210> 25
 <211> 110
 <212> DNA
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| | |
|--|-----|
| <400> 25 | |
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| gaacagcagc ancaggagcg ggcacacctg ctggcgtgca aaaccagcta | 110 |

<210> 26
 <211> 390
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| | |
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| <400> 26 | |
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| aaagcaaaca gactttggca tctgtgttgg gctgtgcccc agagccacag agatgcacat | 120 |
| tttctagaaa nactttggga gacacaaagc tttcttcann actttaagat ctggatacaa | 180 |
| ctgagacatc tgaaaaagct acatgtacta tgggtatata nctgggagct ggggaccttg | 240 |
| ggcctcatct ataccatgag aacactcacg gggnaaggaa ggctgttant tagtatttat | 300 |
| gaaggatacc cancttttga ggacattgtt agggggttna tcttggtttg tttttaaaat | 360 |
| taaaaaagtg tacaagtgtt tttgcttgcc | 390 |

<210> 27
 <211> 395
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 27 | |
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| atcnatctnt ccnncgcgtg tangtcggtg nganagtgcn tgaacgncgt agnntggagt | 120 |
| gtngaacagt tctgactgct atgtngactg ggggaattgn accgggtcct ctgganaagc | 180 |
| nccagagat ttcgnatgct gaggcatttc tccncccc gttttcacnn cttantgaca | 240 |
| naaactctct cttgaaaanc tctnaggagg antngtgggt tnngtatgcc acccttantt | 300 |
| tgtactantt aggattaact tcatctgtga atttnaaca ccccccccc caccacann | 360 |
| aattgaattt attgtctgtc caataaacat aagcc | 395 |

<210> 28
 <211> 392
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 28 | |
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| agcctggacg gacagctacc ccacatgna tgtntccngc ggtttnting gaagccantg | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gnatgaaatc | naccctcaan | actggaccaa | ataccaggtn | tgggaatggc | tgnaacacct | 180 |
| cctggacacc | naccnctan | acgctaagct | gcntcccttt | ccaggagttc | tacattagcg | 240 |
| gaaaacacct | ntgcagcatn | aatctgcang | aattcacnag | ggcgacaggc | tcaactgggc | 300 |
| anctgctctg | gtagcaacct | anagcatctc | angtgaach | gncantgcag | naagtgaacct | 360 |
| ttncagctcc | gcnacagatg | tctttgtcca | ga | | | 392 |

<210> 29
 <211> 137
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 29 | | | | | | |
| acttgggatg | gagagaggtc | agcgggttaag | aaacngactg | ctcntccaaa | ggtcntgagt | 60 |
| tnaactcaca | ncaaccncat | ggtggctnnc | aacnatctgt | nctgagatct | gacncccnct | 120 |
| tctggtcttc | agacaca | | | | | 137 |

<210> 30
 <211> 263
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 30 | | | | | | |
| cactgaagcc | ttgagcattg | tgacacccag | gatcccagag | tcaactgagac | gcttttatga | 60 |
| agattaccaa | gaaaagagtg | gactacacac | agtctaaaaa | atacttatgt | gcataatatt | 120 |
| tctanagaaa | agtttgTTTT | caaatttttt | tcttganagt | gtttactgtt | tcttaatatg | 180 |
| tngatgtttg | aaataccttc | actggagttg | aagagccnnn | gttttgactc | atttgaggta | 240 |
| tgntaaacat | ttctctgggc | cgt | | | | 263 |

<210> 31
 <211> 369
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 31 | | | | | | |
| ggaccacagc | gtgcttcagg | gcttcacccc | cctccctcan | aagttccggc | tgccagggtt | 60 |
| caggagaata | actgagatca | ctgcctgaca | gcagctgagc | cagtcccca | tgtgaccact | 120 |
| gtaaccactg | ccatgcctga | gccagaana | cagaacgacg | cgctggaana | caccagaagg | 180 |
| ccacacaata | aanagctctt | tccttcacg | tgatctgant | gtcggcacca | gtgggcaggc | 240 |
| tcttgcctctg | caaattaaca | cncagctctc | gtgggggaaa | anaaaagggg | atagcgctcg | 300 |
| gtcancaagg | aggaactggg | gatccattgc | tcatnggtca | acatnaatcc | tgggttctgc | 360 |
| aggettggc | | | | | | 369 |

<210> 32
 <211> 396
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 32 | | | | | | |
| ggacgatcac | ggacgtgcag | ctogccatct | tcgccaacat | gctgggcgtg | tcgnttntct | 60 |
| tgnttgnggn | cctctatcac | taentggnag | naaacaaccc | naagaagcng | gaatgaaagt | 120 |
| ggcgctntnt | ccgncccang | gttccaggac | atagtctgag | gcaagatgga | nggtgngagg | 180 |
| gccttcacac | ttacttcat | ntctcctacc | catcacagca | tacaaagcaa | ctacacctgg | 240 |
| atttttccaa | acaactttta | tttctcctaa | gtcttcttta | accctatgga | gcaagaagct | 300 |
| gccactgaat | agggccagct | ataggggctg | ctttcttttc | tactccctcc | ccccaatata | 360 |
| aaaatataga | tatatatata | tagatataaa | aaaaaa | | | 396 |

<210> 33
 <211> 163

<212> DNA

<213> Mus musculus

<400> 33

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| catggggtttc | cttgatcgcc | gtnatnagag | cctggtgcgg | ggacctnacc | ngatcanchna | 60 |
| gtgnactncc | ngtcggggac | catccanctt | cactaanagt | cnggggtgcna | aggaanacag | 120 |
| ggcatctata | cttctgatat | gaaatntgtg | caaataaaaac | aaa | | 163 |

<210> 34

<211> 535

<212> DNA

<213> Mus musculus

<400> 34

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| gcagagaaca | aatgccaaga | actttttgtgc | aggtgtgacg | aggagctggc | ttactgcctg | 60 |
| gcagggaccg | agtaccacct | gaaataacctc | ttcttcccct | ccattttatg | tgagaaggac | 120 |
| tctcccaagt | gcaattgaca | ggctcacatg | tccctttgca | catggaaacg | cacttcactt | 180 |
| tcagtgatca | ccaacagcat | gcaattttgtg | caggagagtc | accggaggcc | aagtgcataa | 240 |
| gccacctgcy | tttgctttct | ccttccattc | aggaactcac | aactatgagc | ctgtggagtt | 300 |
| gccagtctga | tgaaggttca | aagtcctggg | cctgttttat | acaaataagc | gctgtgttgg | 360 |
| gcgtggtata | ctttttgaaa | ttcagccttt | atgagaagct | gtactatctt | gtacctgctg | 420 |
| cagggtgctg | ggtcagatgt | gggtgaacac | ctgcttaggc | tttgctgtgg | taataacatt | 480 |
| gccacatgat | acatctaaga | attgttaactg | taataaaaaa | atgttcoccta | actgg | 535 |

<210> 35

<211> 638

<212> DNA

<213> Mus musculus

<400> 35

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| gcccgaactgg | cccggcagca | cctgctgccc | ttgctgccc | ggctggccc | ccgactgagc | 60 |
| tcccaagaca | tgagagaggc | tctgctgagc | tgtctgctct | ttgtcctcag | ccagcaacag | 120 |
| ccaccggatt | ctggagaggc | ctccagagtg | gaccactccc | agaggaagga | gagattgggc | 180 |
| ccccagaagt | gaggccaacg | gtcctggaaa | cagcaacgcc | catcaaagta | cttttggagc | 240 |
| cggtttagtcc | aggcgtcgg | ccgcacgcac | gggcatggac | ggcagactgc | ccagtgggcy | 300 |
| aagacagtcc | gggtgagtg | caagagggct | ctgacctgaa | cagttccac | tcccctagct | 360 |
| cctagcaggc | tacagattgt | gttgattgac | ccttccctctc | tgcagctccc | tctgccttat | 420 |
| ctctggcctc | cagggtgagc | ctgcaaatgc | gggtatcaag | gtcagttaag | agatgatgtt | 480 |
| tcacttagac | tcaagacaat | ttagctaaga | agnggtat | aaatccaaa | tgtcccgnct | 540 |
| accttaaaat | tataagccct | tgttccggt | aaagaatgag | tacttttaaa | agcttggtag | 600 |
| ccaacaagta | gtcaataaac | caaggacagt | gtgttggt | | | 638 |

<210> 36

<211> 257

<212> DNA

<213> Mus musculus

<400> 36

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| aggaattggg | ctctncaca | gancaaaaacg | gggtcaaaaag | ngggccacga | tgcacgttcc | 60 |
| gagaacaacc | acagaatgtt | ccagccctaa | gtcagcgcca | gatgtcctga | ccacaccctg | 120 |
| atgccacca | gttctgctt | ccttgtgtag | ctgcaaaaan | aaaaatttcc | actgccccac | 180 |
| ccctcctgct | gagaagtact | tctcctttg | cttgtgcatt | taagccttga | gccttgcctga | 240 |
| atacagtga | accttga | | | | | 257 |

<210> 37

<211> 252

<212> DNA

<213> Mus musculus

<400> 37
ctgggtctgt gaccctcacn tgcttctcaa gaagacctg gactctccat ccgctggctc 60
ttcgatcacc anggcctgta cttcnatgan tggatnactc tgtcccagan atacgtcaaa 120
cttaccatcn taccagccn agagggagga tgctggggag taccaatncg angctctctn 180
cggctacagc ttctannatn aatcnccgc tccaaatgic ngtcactagt gactgacctg 240
gcctctctct tc 252

<210> 38
<211> 172
<212> DNA
<213> Mus musculus

<400> 38
actcgagaaa gcagccnngg ctgcatctgg caagtntcnc ctccntggga atttgccggc 60
ccnaaaaaag tgaaagaaaa tgaagtcaga taagaatgag aatctganac aagaggcaga 120
cnattgagac cacaggtttt accccccgaa acatgaaaag taatccaaat cc 172

<210> 39
<211> 176
<212> DNA
<213> Mus musculus

<400> 39
aagcggcgac tgcttnncna gatgtctgaa tggaccagga aagatgtgat ctctctatac 60
gccaagaaat tctaggaaca tcagtttcaa gtcttcagaa gctattctgg ggaagaccag 120
tggaccaat gcatgtggca aactccaaaa aaagacgtga aacaaaataa ataaaa 176

<210> 40
<211> 253
<212> DNA
<213> Mus musculus

<400> 40
tattaggctg gaccgcgaaa aaccttgacg aacacaagga gctgatcaac actggatcnc 60
ccnancnttc gttntttggg gctaaancct cttctaaaaa tccanntgca ctctaaaaaa 120
anatnccctt ggtatngnct cgtcttctc tttctttct gaccccgacg gtgttggtg 180
tnttncnctt gcatgcnang ggtattngga tttnccngc atcctccaac ttcgttgagg 240
agggtttaag gca 253

<210> 41
<211> 319
<212> DNA
<213> Mus musculus

<400> 41
ctagcttcat tatcatancc ccaattctca tagctgngna catactatna cnnggttntc 60
nctnnaataa acggagntgt nagatnacag ctgtgnntg cactcatgtg tgagtattnn 120
ncatgantct gttttatnta ncancatatt atgctgagtt gcctgatcct cacactactg 180
gtgctgtntc gcagtatata ttcanttgat cgnaggccct gccacatct ggaactaagg 240
ccantngagt gcnctccacc ttactgggtg caggactttg ttcttctgag attattgagg 300
acccacacac cacacacca 319

<210> 42
<211> 164
<212> DNA
<213> Mus musculus

<400> 42

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ggtcttccct | cgctgcttcc | cgttttaccgt | ttaagatgtg | agctctcagc | ttctgtgcca | 60 |
| agccgctgtg | cctgtctgct | gctgccatgc | ttccccacca | tggtggatcc | ttacctctct | 120 |
| gggactataa | gccaaataaa | cccttccttc | cttaaaaaaa | aaaa | | 164 |

<210> 43
 <211> 444
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 43 | | | | | | |
| atctccattc | acaacctccc | tcccataacc | tgggtctgaa | naagnncaaa | cccganaaaan | 60 |
| accaactccc | tgaacncnnt | ccctctcttt | ctccanngan | gtggctgggg | caggangaac | 120 |
| tgatnaatat | ttcanccgga | accctccatg | tgattttctt | ttcccnacac | ttaacagggt | 180 |
| tcaacntgan | tcattctgcc | cggacctgca | acnatntatc | natggtcogn | cccnggctgt | 240 |
| aggtctgcct | cncggaacta | caanagggtca | tttcctcaat | canctccatg | gcccganang | 300 |
| ntcaggaact | ggaggaccgc | nacncagtcn | tntggggaaa | aagggcanaa | actgacnana | 360 |
| cttnatcacc | ttcaaataac | aaatttgcca | aatcccaaac | ttccaacacc | tgaactcnt | 420 |
| ngaantatca | aaccttccat | ctcc | | | | 444 |

<210> 44
 <211> 240
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-----|
| <400> 44 | | | | | | |
| tgaaggctta | tttgtgtatg | aatacatgca | catgagtgtc | catggaaaac | agaagaggac | 60 |
| atgagnatac | cctggaaactg | ggattatgca | cagcatgggc | atgtgaacag | tgctcttcct | 120 |
| cactgaatca | tctcgatgcc | cactgataca | agacactaat | gagggaaaaca | gtgggacagc | 180 |
| atacaagaac | tctgcttttt | cttccctcaa | aacctaaaaac | tgctctttta | aaaaagaaaa | 240 |

<210> 45
 <211> 421
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 45 | | | | | | |
| agcagtcctt | ggactactca | cgttctanac | actgcctcag | ggctccctgc | ccaaggcctc | 60 |
| tgcttccggc | tgtcccgctt | ggaggcccc | tgccagcagt | ggatggagct | gaggacaagc | 120 |
| tacacaaacc | tgagcggctg | ctgtcctggg | ctcctgacac | caagccagat | aaagccaggc | 180 |
| acctataagc | tggttcttga | cacagagcgc | tactggaaan | ancgggggtca | aganagcttt | 240 |
| tacccttatg | tagaggtggg | tttactatt | acaaaggana | cccagaantt | ccacgtacct | 300 |
| ctgctgctga | gcccattggc | ctacaccacc | taccggggga | attaaantga | tgtgttacct | 360 |
| gaaaaaagcc | atctatctgc | ctgtttcttt | cccagactta | gccacccaca | caaatacatgg | 420 |
| g | | | | | | 421 |

<210> 46
 <211> 113
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 46 | | | | | | |
| tttcagaacc | atttacaagt | tctgtaattg | ggtanancta | taggaggggtg | tggectgctt | 60 |
| ctgtcacctc | tgaggagtaa | tggaactgtg | tgtgggtatca | ctgggccctt | ttc | 113 |

<210> 47
 <211> 394
 <212> DNA
 <213> Mus musculus

<400> 47
ccagcccaaa gcaaggagg tccagcann canagtcctg ggcccaggcn ctcttgcaat 60
ccccaaanan ccaaggagcg tnagtccacg tccccctgcag ccatgcagcc tgtccagctg 120
ccccgcctgg ccttgtctcc accgctccct gcccctccan caccancnc gngctggna 180
caagtgttac cctcatctcc tagcccaact cctcctcggc ccacctcagc ccagaaanac 240
tccctggact tccctgcggg tccctggaaa ctgccaatgc nntcanggaa ctgggtggca 300
cccttcggca gggactggcc aaactgaacg aagccctcag tgccctgtna ccccttttgc 360
cggaaccca nctgaccgc tgcccccgcc ccca 394

<210> 48
<211> 281
<212> DNA
<213> Mus musculus

<400> 48
gctggactct tccgttacca gtgttccaaa gcctctggaa ttcaagacct actcctgagg 60
ctacaagttt cttagcccaa gcagcacagc ttctccaccc tagggaaccc tccattctcc 120
gtggttctgc agcccagtaa ctctcaggca tgcatagaga gctgatggct cagggtccct 180
agcccagcct cccatcagag ctgacgggaa ctgcctgggg tagacacaag tcacagttta 240
aaagtaaata aatcaagtgc tttcacttcc aaaaaaaaaa a 281

<210> 49
<211> 313
<212> DNA
<213> Mus musculus

<400> 49
ggcagaggag acggacaacn tattcntggc ttgcaaagca ncagggtggg cgggaactga 60
ntgagagaga tgccanctac aaagagtgc cctncaaaaa tttcaancat gtgttnngcn 120
cncngtccag ggtggnccng gtgcacacac atgtataact caccnccgc aaatagntcn 180
cnttcttnna aannctcnaa attaccctca nctctcatga ctgtggcagc ctgacctatc 240
gggatgtnaa tttggaccaa tncntgataa aactgcngct tctctgtgat ctgcgcctgc 300
ctgtctgca cgt 313

<210> 50
<211> 254
<212> DNA
<213> Mus musculus

<400> 50
gctcagggtg gatcttcata ntacattcnt gntgactccc ncaactgtgn angntnaagg 60
atccccctac antccacctn tctacnagaa tcacagatta ttcagcggag aatctgggtc 120
ccctcnccct tcattcataa ctggtgtcac tcccatantc tttcaccctt ganctaaaaa 180
aatgtgggtg cacacntcta ggaatccccct cacttganaa gacanagtcc agtgggatct 240
ttgtaaattc taga 254

<210> 51
<211> 345
<212> DNA
<213> Mus musculus

<400> 51
gtatccgggt tctgggggtg ggactctggn ggntgctnca ctgctncat tnntcatgat 60
gattgggaat aagggtcngt atattntccc tcagctcctt tctnatctcc ttgatgttcn 120
tagangtcct acgtgtatgg gtgntaccta cnatnccggt ccnngaaagn cttcanagga 180
atntcctggg canctnctct aatnntcctc aaaacgtcct ntangccctc ngatatntnt 240
ggaagatctt atggctaccc aanaaacnct tnnaaaacct tgnatctcc tctccaggga 300
tgggtctgtg atcttcacca ttgagtattt gctgaatgac ctcca 345

<210> 52
 <211> 149
 <212> DNA
 <213> Mus musculus

<400> 52
 actggtcaca tagtactttct agacncggtc naaaatntat ngctcnaatg tccttccgcn 60
 ncanatannc gtancttnga tagtttctctg gtgtgtatgc cttttttagg gtttttcaat 120
 taaaagaaca cancaagaat gtcaacgga 149

<210> 53
 <211> 194
 <212> DNA
 <213> Mus musculus

<400> 53
 tgtggatcca gggatcnaat catcattacg tggggnatgg anggatatcg gancnantac 60
 naggccctgg ctttggccat caaggcaagc cacannacgg gcatccagac atgttggtta 120
 cgaangctgt tgtctataaa ganccggacc cnnccccgga agagagagac nnggaaaggg 180
 gcggaatcct tgac 194

<210> 54
 <211> 389
 <212> DNA
 <213> Mus musculus

<400> 54
 tgtggccgcg aaagtgacaa gctgctttcc agaactccaag ggcccggctg cttttatggc 60
 cctgcttcac agggagaaga gtggagcaca ggcgaaacct ctcagtctgg gaggtcactg 120
 cccaggacc tggacctttt agagagctct ctogccatct tttatctccc agagctgcca 180
 tctaacaatt gtcaaggaac ctcatgtctc acctcagggg ccagggtact ctctcactta 240
 accaccctgg tcaagtgagc atcttctggc tggctgtctc cctcactat gaaaaccca 300
 aacttctacc aataacggga tttgggttct gttatgataa ctgtgacaca cacacacact 360
 cacactctga taaaagagat ggaagacac 389

<210> 55
 <211> 341
 <212> DNA
 <213> Mus musculus

<400> 55
 atccatgagc agagctcaca gacaatggcc aagtgtgtca aagntgtcan cgagggcgct 60
 caggcagtaa aggagccgct catatgctga gacatctaac aggggacct ttttgctaca 120
 gacagtaaat ggacattgct gtaatccctt ataagttaat gttttccaac atgagtctga 180
 atgatgtaat atttaaagtt atactatgct tatccgaaaa tggatttgta cttatcaaaa 240
 atcctggcag tttaaaatgt atgtaattgt gtgcaagcat taactagttt aataaaaacta 300
 tcattttctc tttcatgttg aaaacactgg aaaaaaaaaa a 341

<210> 56
 <211> 472
 <212> DNA
 <213> Mus musculus

<400> 56
 ggatggagac ctctcctttc ctctggagtc agtgaaaaaa cttaagggtc tccgcgaggt 60
 acaggagccc agactggtga gtcacaagaa gtttgctccc cggcttcttc agcccgtagc 120
 accacagcta tgtagtagcc actctgcact tccagaagca ctgagccggg tctgcgagaa 180
 acccaacgcc gaggagatcc tgcagaggct agaggccatt gctcaggacc caaacacatg 240

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tgagatctgt | gcctacgctg | cctgtacggg | atgctagagt | gacatcgctt | gcctttctct | 300 |
| cagcccatgt | ggaagccct | ctatcttcta | gaagtcacga | ggctaacaaa | ctcataccct | 360 |
| cagcatctat | tgccctgcca | cagcggggag | gaggctgagg | agacagctac | ctggagaagc | 420 |
| cttgccctgag | ggctatgtta | accctcagcc | aataaaccaa | acttcagaac | tc | 472 |

<210> 57
 <211> 375
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 57 | | | | | | |
| ggatagactc | cggccggatg | ccactcccag | ccctgaccaa | gaaattgctt | cctgttgcca | 60 |
| gtctggcctg | ctctcctgcc | tccaacaacc | aagctgccga | tagcctctcc | ttttgtcct | 120 |
| ggacctcca | tcttctcttc | cctctcatcc | tttgaccaac | cctccaactc | tgcttctcac | 180 |
| catcagctaa | agggaccagt | ccctagggga | gccaagagct | cccaagggaag | gatgaaggag | 240 |
| agaaggcaag | catcccaacc | agatccaagg | ggacactgtc | cccatgctga | atgctcagga | 300 |
| ctcttgggtc | ctgccctgtt | tacggatccc | tcattttgtg | taataaagtg | cattgagtgc | 360 |
| ccctaaaaaa | aaaaa | | | | | 375 |

<210> 58
 <211> 405
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 58 | | | | | | |
| ggagccccgc | agtctgagcg | cagcatccgc | gcccttggtt | gagacgagca | ctccccctccg | 60 |
| cttgctgcgg | gccgtgcccc | gaggagaggc | ggcgggtgcg | gtgcaggagc | tggcgcgggc | 120 |
| gctggcgcac | ctgctggagg | ccgagagaca | ggaacgcgcg | cgtgctgagg | cgcaggaggc | 180 |
| tgaggatcag | caggcgctg | tcctggcgca | gctgctgogc | gcctggggct | ctccgcgtgc | 240 |
| ctcggaccgc | cccttgcccc | ccgacgatga | cccgacgct | ccagctgcac | agctcgcccc | 300 |
| tgctctgctc | cgagctcgcc | tagacccggc | cgcttgcaa | goccaaactg | tccccgcccc | 360 |
| tgccngtgcg | ccgcgacccc | ggccccaatg | tattatgatg | gcccc | | 405 |

<210> 59
 <211> 333
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 59 | | | | | | |
| gcctgaagcc | ctagcttgnt | cgnagntgga | ccttctctgt | caancgctcc | tgctncagcc | 60 |
| aacatggggg | aaccggaag | agncactcac | gtgcactctt | ctaataaaca | aggtgatgga | 120 |
| tcancaggaa | gacgagtcac | caccgtctnc | cttacgaaga | tgatgtcaca | tcaaaatnaa | 180 |
| tatgatcctg | nncctaaagg | caancgggta | ctgaggatga | tgaagatgac | atgtngacac | 240 |
| caagaagcna | aaaacgagag | gatnatnact | tcccnccgaa | nnntncccta | cgcccgtgac | 300 |
| tattccccctc | cacttcccgt | ctcagaattt | aac | | | 333 |

<210> 60
 <211> 399
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 60 | | | | | | |
| gttaataatt | gttgtctgca | ngcacacnng | acatgcctcc | acccccatcn | tancanacag | 60 |
| antnnttnnc | tttccantng | cctgtctcct | cnactgnnct | tgctnatggt | acattatcat | 120 |
| ctnccgactc | tggnntcaaa | ttngtctcnc | nngttcctga | agttggccaa | tganattcct | 180 |
| ctgaaccttg | aatgtggatg | acttcaggca | gccnngttn | cccaanaaaa | tggttaacct | 240 |
| nanacacctt | cctaaaagg | ctcccacgaa | aggggaaagc | caggaaagg | caagangacg | 300 |
| gacctgacc | actatgaaac | agactacacg | acaggtgggg | aatcctgcga | agactggaag | 360 |

aagactgggt ccngggaata tcccctatca cttccgatc

399

<210> 61
<211> 420
<212> DNA
<213> Mus musculus

<400> 61
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gtgtccctcc tnggnatggc cnatgcnact cccggagccc ggggtntnat taactgctcn 120
ggaggaagtt ntatctgttn nannactnnt ctctgtntga gcagaggctg acctnttgan 180
ggggacctga ggcattgccc gttgcaccac aaggccatgg agaacnctga ctgctacnca 240
agcacctcta tnggatntat naccgggtgtc cctgtgtagc ggggcctgat ctgtgacggg 300
gantcgaacn tcaacngcgc catctctnng ncnnttatg gcattctgct cnactccagg 360
cgctccaaac agtganatca cccctttttn ctgtannct tcttctcttt ctccctctgt 420

<210> 62
<211> 483
<212> DNA
<213> Mus musculus

<400> 62
gacaatggga gcagccaaag ctagcctcgg ccggatcttc ccagagtcct ccattctgtt 60
cctatgtgac atgcaggaga aacttcgaga tagaatctc tacttcccac agatcgtgtc 120
aatggccgct cggatgctta aggtagccca gatgctagaa atccccgtct tgctgacaga 180
gcattaccca caaggtctgg gccccacagt tcccagctg ggtgctcagg gtctgcgaac 240
catgagcaaa acgtccttca gcattggtgc cccgcttcaa caggagttgg acaaactgcc 300
ccagctgcag tccgtgctac tctgtggcat tgagacccaa ggctgcatct tgcacacagc 360
tctggacctc ctggaccgtg ggctacaggt tcatgtaaca gtggatgcct gntcttctca 420
aagtgaatg aaccggcttg tggcactggc ccgaatgcan caaatggcg tcttctgtc 480
cac 483

<210> 63
<211> 197
<212> DNA
<213> Mus musculus

<400> 63
gcacagcccc tgcctgcctc ctgacaaccc cttggacttt gagaaaaccg acatgattga 60
ccgtcccact tgatgtcctc gcttagaaga gtgacaagag ttttggagtc ttgagggccc 120
tgctgtgtgt ctggcgctcc tggacatcag gacactaaat aaataaagac tgagtactgg 180
gctctgaaaa aaaaaaa 197

<210> 64
<211> 200
<212> DNA
<213> Mus musculus

<400> 64
gttatcgtc agtggccgag cacttgtcta atatgtgcac agccttgggc tccatcccta 60
atactgcaac aggagcagg gaatgtgct ggtgtcttg tatctggggc aaaggtgggg 120
ggttaatgaa aagcaactca gactactgaa ccagatacag aaaggcaaat aaaaatcaat 180
gtgttaccat aaaaaaaaa 200

<210> 65
<211> 145
<212> DNA
<213> Mus musculus

<400> 65
agaatgactt ttgccccgaa atctggatga cctccagctt cccccgagcc aggagaaagt 60
ctttgtgaac tgtgaagtga agtcaaaaag actgactgaa tcgaaagagc agatgagtca 120
agagacccat gcaaaaaaat aaaga 145

<210> 66
<211> 437
<212> DNA
<213> Mus musculus

<400> 66
acttctgcat tccgcnctt ctctggatac cccgccttca ggaagacttc caggactgac 60
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gggaacttgc nccnctctgc attgcttccc atacactgta tttgccttng ctgatncaaa 180
ggcccgagat gctctcagat tanccganac cgcagcaaac attgccagtg tgaccganan 240
aagaatttct tcttaaagat anactcctca ttctgacacg tcacggagtc cctgtcatca 300
caagtcanag tgtanctgga gtcccatcg tcccttctat gtccancaga tccaggacgc 360
ctctttgagg cagatcattg ctgtaggaaa gccccatttn cctttcccca ctatccttgt 420
cctcctcctg tgagtga 437

<210> 67
<211> 195
<212> DNA
<213> Mus musculus

<400> 67
ctctcatctt cggaaggctg gcactcatat cganaatat gatgaaggac ttcanggatg 60
ggctcaaaact nttgcttctg ttggagggtca tttcacggga acgtntgcct aaccagagc 120
gggggatnat gcncagtgca ctagatccnc cttaactctc anaatggacc ccaaactccc 180
ccaaaaatcc ttttt 195

<210> 68
<211> 175
<212> DNA
<213> Mus musculus

<400> 68
gcacctgcac ttttcccacc tcagtgcact acaagggtgc aattccctca caggccagaa 60
agagggcctg gancccttg gaaacggtna acccatcctg taggtngaa naattnaact 120
gagtcttctg gaataacaan cantgctctt aactnctgac ccatgtctct ctcca 175

<210> 69
<211> 179
<212> DNA
<213> Mus musculus

<400> 69
ccagaccagc ttgctcaacg acagatacta ttttggaana ttgcangcat cctctcaca 60
gccggggttc tggggaaggg aagaagcaaa gaaactggtt ctctcccctg gggtttatgt 120
ttggcaaaact tgtttactta aaatccacct ggcccccaaa tttccattaa aattgaagc 179

<210> 70
<211> 220
<212> DNA
<213> Mus musculus

<400> 70
ggtctgcaag atgacagagc ctgactccca agttccgtcc tctcaccac tccgtccct 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cttcaagcca | aaaggagccg | gctgtctggg | gtctggttgg | ccctgattca | caatcccacc | 120 |
| tggatctccc | aaatttgtga | ggaaggttgc | taaaaagcta | agcgctgctg | ccgcaccac | 180 |
| tcagctccct | cactgctgct | gaccattcac | aaaaaaaaa | | | 220 |

<210> 71
 <211> 107
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 71 | | | | | | |
| aatctccgaa | attcganac | aagctgancc | gggaacctta | atataacttc | gtataatgta | 60 |
| tgctatacga | agttattagg | tccctogacc | tcgagcccaa | aaaagta | | 107 |

<210> 72
 <211> 255
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 72 | | | | | | |
| ctggtgggaa | ttgcccccaa | gatactgaac | ctcaagggtgc | aaatgccttt | ccanccactt | 60 |
| cctgatgcat | actcgggccc | cctgcenact | gcagnctttc | gggctgtgtg | anctcctgaa | 120 |
| ctgtctccga | nnctcctgag | ggagcctggg | cccgatgtcc | tcccatggat | ccctgctttt | 180 |
| gtggcctgct | tcattttccc | ttcttaatgt | acatggttgt | tttccatctc | cacataaatt | 240 |
| tggcccaaaa | aaaaa | | | | | 255 |

<210> 73
 <211> 196
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 73 | | | | | | |
| gggtgataca | attctggaga | ctggagaagt | aattccccaa | tgagagattt | tcctgatcaa | 60 |
| catcattgaa | gagtccttaa | aaacttaaca | gacttgtgta | acagcacaag | tatgttccta | 120 |
| aagtgcgtga | tttactgaat | ctgtttcctg | gaaaagtaat | taataaagct | tattctcaga | 180 |
| gtgttaaaaa | aaaaaa | | | | | 196 |

<210> 74
 <211> 186
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 74 | | | | | | |
| agaacaattt | atctctngga | tacggangaa | catcactagg | cacattttat | gaataactcca | 60 |
| antcctaagt | tacactgana | tctagacctt | catttggcag | ggtcaggoca | ttggatggtg | 120 |
| ttgctgtatt | gtcttgtcat | gtttttaaaa | tctgtgcact | ttgtccaaag | ttgacatttt | 180 |
| tttttt | | | | | | 186 |

<210> 75
 <211> 309
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 75 | | | | | | |
| gccccacctc | cctccctcga | atcanentcg | atgaaantca | naaaatgtag | agtctcanaa | 60 |
| tatctgttca | anggtctgac | ngtcgcanga | tcctcncnaa | gggatagtct | gccgtcccca | 120 |
| tngtttctga | tccnccgggt | caccactgcc | nccancaacc | tgcnnaange | tgctgaancc | 180 |
| catcncang | accacatnt | tgaagaggaa | tgttttcntn | actgtattgc | cncgtttgag | 240 |
| gaagaccacc | ccngggcgca | cntggcangg | agcantgcca | acgatnatte | tcgtcctcaa | 300 |

ctggatgaa

309

<210> 76
<211> 218
<212> DNA
<213> Mus musculus

<400> 76

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| ttccaatgac | tgcccttttna | caataaaaatn | ggaagccaca | accanngtct | tttggataaa | 60 |
| gcanacaaat | ngacattgta | atcgaaggca | acnatacgcn | tatccttccn | taggcactta | 120 |
| tctttcccaa | ncatgggaaa | gatonncct | ccccactca | tccctccnc | netncactg | 180 |
| nctggtnggc | tntcagaact | atgtaaaata | aaatataa | | | 218 |

<210> 77
<211> 531
<212> DNA
<213> Mus musculus

<400> 77

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| attccactcc | gttaggatta | aagagacaga | gtgtacttcc | cccaggagag | acagcctaaa | 60 |
| gactgcgact | tcctggagga | tggggaggag | agaaattgca | cagggaaatt | cttcanaagg | 120 |
| cggcagtcaa | cctnctgac | cttgacctgc | gacagggatt | gcagtcgaga | ggatacccaa | 180 |
| gaaaccagtt | ttaatgataa | gcaagacgtc | tctgaaaagg | aaaagtccga | agatgtgccc | 240 |
| cctcacatca | ggaacattta | tgaagatgcc | aagtatgata | tcatacgcaa | catcctgaaa | 300 |
| aattttctagg | gctggaaaaga | ggaggagggt | gctccctgca | tactatgacc | tcctctttac | 360 |
| ctnactacc | catctncccc | tnctgnattc | angatctgcc | cctccttnc | gcccttccca | 420 |
| ggaacacccc | ctctagagta | ctctagctcc | taancatnca | tacctttgtn | catttgcttc | 480 |
| ttctgctggg | ccttctgcct | taccctntat | ctgaaaacct | tattgattct | t | 531 |

<210> 78
<211> 233
<212> DNA
<213> Mus musculus

<400> 78

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaagtacat | ttgaagaaca | caagtagagg | aagtgcagga | aacaagacct | acagaatgta | 60 |
| ggaggagcct | cccacggagc | agaaaatgcc | acatcacgc | aggatccttt | gctgcttgag | 120 |
| caacctgcaa | aacatcgaaa | cacctaccaa | ataacaataa | taagtccaat | aacattacaa | 180 |
| agatgggcat | ttcccccaat | gaaatataca | agtaaacatt | ccaaaaaaaa | aaa | 233 |

<210> 79
<211> 554
<212> DNA
<213> Mus musculus

<400> 79

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-----|
| tgacgtgaaa | cgcgcncccta | cnaggagaaa | tcaccacact | gaaacccaga | gagacaaaag | 60 |
| aagatgacac | tgctggaacc | aggatgcagg | gccactcctg | atctggatgc | tgggggttaag | 120 |
| caagtgcaag | gcaaaggcag | agcaaaaggct | ctgaggcgcc | tcttcccgcc | atgcgcgcaa | 180 |
| cccctggaga | aacacctgct | atttcaactc | cccaagatcc | tttaggaaaa | atcattgctc | 240 |
| taggcctctt | tgatttttct | ctcaaaagca | atagctgtct | gcctcactgt | gcctttgttg | 300 |
| ctgtggaaga | ctgaagatat | aaatgagcat | tactgggatg | ggacgtctgc | gtgaagactc | 360 |
| actggagatt | cctttcaa | gccatctttc | tgtacactag | atttctttct | ttggatcctt | 420 |
| aaagatttct | ttccagtgt | aaggttttat | ttgttttggt | ttaatgtcta | tatttggttg | 480 |
| aaaaaaatca | ctgtgatttt | acatttcacc | acaattaata | aacattggga | gcttcattct | 540 |
| ggtaaaaaaa | aaaa | | | | | 554 |

<210> 80

<211> 322
 <212> DNA
 <213> Mus musculus

<400> 80
 ccaaaaaatgg atttgccctgt cccaccaggc agagacagga gtctggagtc agttcaaggc 60
 gagccccagg agtccatcag catgcctcag aactgacca gcaccctgga gcacatcgtg 120
 ggccagctgg acatcctcag gcagacagtg tccattcttg aacagcgact gacactaaca 180
 gaagacaggc tgaagcagtg cctggagaa cagcagttaa tcatgcagag aacgccaccg 240
 tgatgagggg agcaaggatc aggagctcag tgattggggg gacagcaggc cagggatttg 300
 tatggggact tgagtaaata cg 322

<210> 81
 <211> 168
 <212> DNA
 <213> Mus musculus

<400> 81
 ttcaactcca ccacctcctc agaacttccc ttggggaaga tctgcatggg ccgcccctat 60
 acctccaagt gtgtagagac gagtcacctg acgagaggcc ccaagggtgt caaaaagccc 120
 aacctgtcac gcacagccct cactgcctga tctgcacaga ccaaccat 168

<210> 82
 <211> 275
 <212> DNA
 <213> Mus musculus

<400> 82
 acatgaggat tccccctgt angatggagg aaagggctct gctaccctga ctacaccaga 60
 gccggccgcc ttatggggac tgcagcaaga tggatggaaa atatgtgcag gatctgttgt 120
 tacaatagac agaaaactga actgtagtct atgtgtagct tccgaccaa ggaacttctt 180
 gagttaatat taacttaagg gactcccttg ggcaaagtta ctgatagtgg ccaaaggccc 240
 tncgggtctga ccantccca aaaaccaaac ctgct 275

<210> 83
 <211> 232
 <212> DNA
 <213> Mus musculus

<400> 83
 ctcttttgct ttcttaacca tcggaatggg aaacatcctn gataggttcc ggatcnagtt 60
 cctgtggcaa ggctgantgg gacggatgga cccacctncc gcttgcaacg tgcccctggc 120
 caccgccct aggtatctgt ttggactacg aaacgggggn gcgggtctcc ttcttggaat 180
 gcnntgtcct nccgtgggct gctcaantgc cccctggaac tgctcagggc ct 232

<210> 84
 <211> 319
 <212> DNA
 <213> Mus musculus

<400> 84
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 gagtgtctnc aagacagctn tatcgatct actacnggtg tccctgtgag cggngnctga 120
 cctgtgagg ggacangagg catcttcngc tccatcacca acgnattan gnactctgac 180
 tgcactccag gcactcctat cggatanatc tacnngttt cctgggtaat gnggttcttc 240
 tctttctccc tcagtnat ctgaaccngc catctgttg cnntntatc ccacttgctt 300
 cctttccagg ggctccaaa 319

<210> 85
 <211> 387
 <212> DNA
 <213> Mus musculus

<400> 85
 taatatctat gctatgatgg ccttttggaa cccaagagtn ggattacnac acccaganct 60
 gggggaatac tcatgagtg tctgctggcc ctagctctta ccacgtgcag ctttcttctc 120
 ctttccattc cctattcctc catttctct tcccagccct tccctcagnc aagcctctgg 180
 gtccttgggc tctccatttc ttcattagtc tctcctatc ccttgtctct gccctgcac 240
 cngcccttc ctcantgatg gttggaggaa tgtactanac ccgagaatcc ccggcctggc 300
 ctgagagatt anactgtct gtgtgctgcc ttggtcctca aantaagcag ctaancccca 360
 tttggttctc aataaagtgt gaatcac 387

<210> 86
 <211> 406
 <212> DNA
 <213> Mus musculus

<400> 86
 atggaagaca cttganaccc tcgtccnccg gaggtggenc canaggaatc tacgcancan 60
 gcgtngattg aggagccctt gnacctgtg anttntccga ntgncccttn acagacgctg 120
 cctntaaana gnctagtnct tgtgncttag gnccttcccc tgtcctanaa nngcactgnt 180
 ctttgnagaa gtnattcctc ccnctacctc ccatngncca cacttttaac naactatnat 240
 tctcctctta gaggnnagnt agaaanccac ggcccaanat tctgtcact ctcattatcc 300
 ctctagatca gnagtacatt ntgagacctg tntcacaagt ggtcatttct cttctctcct 360
 gtctggcatc cgatcctaag taaacaagtg actaatataa tcatga 406

<210> 87
 <211> 540
 <212> DNA
 <213> Mus musculus

<400> 87
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 ccctttatga tgcagtgggt ggtgtatgct gtgcgaaatc tcaactgaaga caacagccaa 120
 aaccaagatg tcattgccaa gatggaggag cagggccttg cagacgcac cctactgaag 180
 aaaatgggct ttgaaattga aaagagtggg gataaactga ttctgaagtc taataatgac 240
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 ctccaatcc tttagagtaa atgagtgtaa gctacaagtg gacgttttct ttatttcttt 420
 gcagtaagtg ttactgtctg cctcaccttt gtccctctgg gtagaactcg ctttcccgtc 480
 atatacattg tgcttactgt tgtagtaata aacgtctctg tgggcacagc cctcactcgg 540

<210> 88
 <211> 400
 <212> DNA
 <213> Mus musculus

<400> 88
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 ctacaccgat cgggccaaaa acaaggtctc aaaaaagctg aaggctcccg gtccccaanc 120
 tctccacac tctccaaacc ancantcggg agggcttgcc tgccctggtct gtggtctctc 180
 cttgtcccca atttcggcca cccccgcat ctctgtctct cttttcccg caccggagc 240
 catcccgctc ctcggggctg gtacctnact nanaaaaacnc gggcntgaca caatgccccg 300
 caggtcaatn tnaactgggg aggaaagccc gctcttcagg acaaaaactcc cgaacttnaa 360
 agcctgcnct tcatacagct cggtgaccaa aggggcccag 400

<210> 89
 <211> 212
 <212> DNA
 <213> Mus musculus

<400> 89
 gatctggaag acgccccact gaaattcntt nccggcaaaag gaggggtacgg gaaggattna 60
 ancgtaagg gtcccaaata ccggagagag agaganatcg ggcntctaga ntcnggggtgt 120
 ccaggacant nactgcgcac ctgcacaaaac tcttttctaata tatctaaca tnttactctt 180
 tcagacactt ctttctatct ttcttttggg gg 212

<210> 90
 <211> 261
 <212> DNA
 <213> Mus musculus

<400> 90
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 ctgtgtgtgc tnaggctgga atctctgcac ctgcctntca ctcaggacgg gggggancca 120
 aaaattcggg ggctggcttn tgnatttacc ctggcttcat aacctcagga tattaattc 180
 tcatcccagg aatcagctgc caacttttagc ccatnctct tttntataca ccttancatn 240
 aaagggcact ttttaaaaaa a 261

<210> 91
 <211> 181
 <212> DNA
 <213> Mus musculus

<400> 91
 ctatgtaaat ctgactngaa gcccttanta tagtntcttg gattgtgcac anaatagaaa 60
 aatgtntgga aggcannnnn acncttango ttcccaaggc acnnatcttt cccagcatgg 120
 gaaaaatcct cctccccct cctccctcc ctcctcact ctttctatta tgctctctta 180
 t 181

<210> 92
 <211> 418
 <212> DNA
 <213> Mus musculus

<400> 92
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 attcaaggct agggcccaaa ccaacttcca caatgtctca gactctctcg ggagggtccc 120
 gggtgtcag caattctgta aaaggctcagc gtaaatcact tgggaggcat ttgtgtaggc 180
 atggtctctc ataaatgagc gtctgcaaaa cccatatatt tctaaaaaca tctgcaactgn 240
 cttnacntg ggttcaaanc agncaanntn cngggncntt ccontgaaon tnaaagggcc 300
 gccaacctng ttttgntat ggnancntcc aancnaggn gaacntcatg ngagatatct 360
 ntactcacat ntcacatntc caaacttccc agcanaggca anaaatctgg ggaaactt 418

<210> 93
 <211> 214
 <212> DNA
 <213> Mus musculus

<400> 93
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 ccatcatcac ccantggcc caggaaaatc aatgantatc cttctctgt cctgcaacaa 120
 catccatata cagccagggt gccctgtccc aagcacctct ctggccctct ggtggccctt 180
 gcttaataaa aattctccga gcacaaaaaa aaaa 214

<210> 94
 <211> 445
 <212> DNA
 <213> Mus musculus

<400> 94
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 gctccaattc acactcctga gctctaagga tcacagagct gtctgtctctg tagccagatg 120
 gcactcctcc atgttccccg gatggccact tatactctca cccctcctct tagccctcca 180
 gaaagatgtg tggcaagggtg ggggatggac atgacgtgaa gaaactcacc ttcaggagcc 240
 ttccttacag caggagggtc cagaggcacc tggcctgact ccattccttta tgggttgag 300
 gacattgcca ggtttacacg gcctctgagc ctggactgtg aggctaggaa ctcacgtcac 360
 aaggnttggg gttaaggatc cagtgaagctg attgggtaga gcacctatga caggacatgg 420
 cgtcctgcaa gcacgcaata aaacg 445

<210> 95
 <211> 339
 <212> DNA
 <213> Mus musculus

<400> 95
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 cgggtactgt gactctgtcc tctgaanaa tatcttgagc gtgaanaaat tcggcagcgc 120
 tagaaaaaaaa tgtcataata ataaatacac tggaaantca tttatctcaa tnacagacta 180
 cntgcaattc aaaaaccgac atactaatct gttgcttaaa ntaaaatcag gggccaaata 240
 aatgattgaa taactataat ttacttcaaa aaaatgcctt gaacaaaatc taaaanctga 300
 accntgtcnc ctaaantaac cttttcattg tataaatta 339

<210> 96
 <211> 264
 <212> DNA
 <213> Mus musculus

<400> 96
 ggtggttttc acagccaacg actctggcca tcgccactac accatcgcag ccctgctcag 60
 cccatacttc tacagcacca cggctgtcgt cagcaacccc cagaattgag agactcagcc 120
 caggaggacc aggatcttgc caaagcagta gcatcccat tgtacaaaaa cagtgttctt 180
 gctctataaa ccgtgttagc agctcaggaa gatgccgtga agcattctta ttaaaccacc 240
 tgctatttca ttcaaaaaaa aaaa 264

<210> 97
 <211> 292
 <212> DNA
 <213> Mus musculus

<400> 97
 tccaaccccg cggacgcacc cgcnaaactg ancagaaata ggnnaaacn acgggcagng 60
 cnaatccagg cctggcgtcg cgggcgggaa gacgtggcc tcagcgagcg cggctcatct 120
 tocagattag aagattcccc ccgcacacac caggggaccc ccgcaacacc aaggcacaga 180
 cagcctcogg acagagctgc cgccactgg gctctgtccg cccatccgag ccaacactgg 240
 ctcccgaata catcataatt tggaataaaa tgtgaaatcc caaaaaaaaa aa 292

<210> 98
 <211> 218
 <212> DNA
 <213> Mus musculus

<400> 98

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gtggggtctt | tcaaagacct | tggcgagaaa | gccagacctg | cgctggagga | cctgcgccat | 60 |
| agtctgatgc | ccatgctgga | gacgcttaag | caccaaagtc | canagtgtga | tcgacaaggc | 120 |
| cagcgagact | ctgactgccc | agtgagggtg | ccgcttccac | tccccacccc | cgcattggct | 180 |
| ttcttacaat | aaacctttcc | aaaatggaaa | aaaaaaaa | | | 218 |

<210> 99
 <211> 273
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 99 | | | | | | |
| ggaggaagca | agggcagtcg | gcagagccga | cccaccatcg | attcggacac | aatcacctgc | 60 |
| tggaaatttg | agagccggtt | taaatatgat | cataacgtcc | agaagtctgt | ttctaaaata | 120 |
| tagaaaggca | agatgacagc | tctaaggatg | ccaattttga | agaacttgga | atcttttcgt | 180 |
| tttgatttaa | accttgggct | catctagctg | ggtttcctgg | tgtgacagga | gaaagaaaca | 240 |
| gtaataaaaa | atggcttcct | tgaaaaaaaaa | aaa | | | 273 |

<210> 100
 <211> 210
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 100 | | | | | | |
| gggccaacag | agccaggatt | cagcaggagc | gccagcagag | gcagcagcct | cgggcagaac | 60 |
| cctccctgcc | tccagaaaag | tccaggatca | tgccccagga | cacaagcccc | tgagaggctt | 120 |
| aactaaatgg | gaccttcatt | ggtcctctcc | ctgctgcctg | tccagaacta | cacgtgcaat | 180 |
| aaactcattt | tcagacgcca | aaaaaaaaaa | | | | 210 |

<210> 101
 <211> 447
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 101 | | | | | | |
| cttgagggtg | gcccgcagat | ccatggacac | cttgtgetta | gagcccagta | gggctcggag | 60 |
| catggcatcg | gctgagacac | ggaccggcg | caggggagga | cgcttgaact | tcccacggag | 120 |
| gtccagcacc | ttcagcttca | ggtccttgat | ctgggggagc | aaaggagcca | ggctctgagc | 180 |
| cagggatggt | agacctagag | ctctcaccct | gaggatccaa | ccactgggct | tccagctaga | 240 |
| accatcctac | aagtccctcg | ggctccaggc | tagaccatct | gggggtgctc | gaatctccta | 300 |
| ccctttttcca | agcaatcact | acacacgcta | aatgttctaa | atgaactttt | acagattacg | 360 |
| cccactagtt | aaccttgcct | cttncccata | accagtncc | caattaantg | ataagccaat | 420 |
| aaacctttac | tccatttgg | aaaaaaaa | | | | 447 |

<210> 102
 <211> 104
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 102 | | | | | | |
| aatatcccg | aaactaancc | ctatcctgct | naccatctcc | tgtttctggt | tccaggctcc | 60 |
| ngaaanncan | ttgggaaaaa | tgggcctccc | ccctccttta | taaa | | 104 |

<210> 103
 <211> 234
 <212> DNA
 <213> Mus musculus

<400> 103

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| tgcccaggct | cccctaagtt | tccaagctgg | cctccacctt | gcaacgctgc | tgcttcagcc | 60 |
| cgagtacctg | gattatagtc | cttcagtgtc | ccgcccagct | cacaaccttc | tagggtttgt | 120 |
| tctgttttta | aggaagtcag | catttggaag | atctacacct | gtacaagatg | tggaatatca | 180 |
| cttgatcaaa | gtaaaacaag | gcagaataaa | agttggatat | gggaaaaaaaa | aaaa | 234 |

<210> 104
 <211> 307
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 104 | | | | | | |
| agtactgcta | ccccgcctgg | cccaagggtga | agattttaact | attagaggat | tcaaccatga | 60 |
| aggtctgggt | atacagtgc | tccctgtgac | cccagcactc | tgtgcagaag | caagaagata | 120 |
| gcagcaaatt | caaggcctgc | ctaattgacct | acctacaaag | tcatacttaa | actgagacac | 180 |
| tgacgctcag | tagaagctga | gcagaaggat | agagacctgc | aggccagcat | gttctgtcta | 240 |
| gcaagtttaa | ggatagggtt | acataaggga | acccccgtct | caataatata | aagtaaaata | 300 |
| aaataaa | | | | | | 307 |

<210> 105
 <211> 324
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 105 | | | | | | |
| tgccagggaat | ccttaccgcc | tatgtgcac | cttcctaagg | acataggcgg | atgccgagct | 60 |
| gtgtttgtga | aatgggtacta | taactccaaa | actggcaant | gtgantgggt | ccgctatgga | 120 |
| ggctgcaaag | gcaacaaaaa | caacttcccg | agcaaaattc | agtgccaggc | antctgcac | 180 |
| aacacctgac | ttgtcaagcc | aanccagccc | tccatggant | caanctccct | ggggacccct | 240 |
| gaagggtttt | gtttgtgaat | aataataatt | gcatttcctt | aaatacat | ccctaaaatt | 300 |
| ctgtctatct | ccgaaaaaaaa | aaaa | | | | 324 |

<210> 106
 <211> 183
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 106 | | | | | | |
| gttcagatga | tgcaaaggaa | cggaaatcct | tcaaacacnc | aaanacacag | tacggnaaac | 60 |
| acagcacaga | atgagagcag | gttcaggcgc | aacctcaacc | caacctggag | ggacatctat | 120 |
| cctgcttggg | ccaccccggt | ccttgacac | aactttgaca | aactccatg | aattaaaaaa | 180 |
| aaa | | | | | | 183 |

<210> 107
 <211> 132
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 107 | | | | | | |
| ggggtgagaa | agatccagag | gnaatggcca | ngnctccctc | aagagaagat | gnctacatta | 60 |
| taaactccct | tttcaacccc | aacacccact | atatattttt | aatatataga | aaaaaaagct | 120 |
| aaaaaataaa | aa | | | | | 132 |

<210> 108
 <211> 214
 <212> DNA
 <213> Mus musculus

<400> 108

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttccaaactg | ccttttgaga | ataaaatggg | aggccagaac | caaagtcttt | tgaataaagc | 60 |
| accacaactc | taacntgtan | gganganac | naaacaaaa | ggaaaaaatc | tttcgcanca | 120 |
| tgggaaaaac | ctccctccgg | gccctccctt | actccctccc | tcccttttga | cccattttca | 180 |
| ctcttccacc | atacactcaa | taaaataaaa | taaa | | | 214 |

<210> 109
 <211> 111
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 109 | | | | | | |
| atgccactct | cttaggttta | aaaatcnctg | gaataccaaa | aancaacnct | tcctctgggtg | 60 |
| ggcaactaat | tcttatcttt | acatgggnaca | gggcgggggg | gcaggggggg | g | 111 |

<210> 110
 <211> 119
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 110 | | | | | | |
| atgccactct | cttaggttta | aaaatcgctg | gaataccaaa | aagcaacnct | tcctctgggtg | 60 |
| ggcaactaat | tcttatctnt | acatgggnaca | gggcgggggg | gcaggggggg | ggaatttga | 119 |

<210> 111
 <211> 161
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 111 | | | | | | |
| aagctggatg | tcagatccct | gggaggatat | gagaggatgt | ttccagaaag | accgaactaa | 60 |
| aaaggaacgt | ccaaccctga | atgtggagga | catcctcctc | tgggctgggc | tcccagactg | 120 |
| agtaagaaga | aaataagttg | agctcgcccc | cccccccccc | c | | 161 |

<210> 112
 <211> 226
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 112 | | | | | | |
| agggtacagt | ggcgactgga | aaaacacttc | actgtggccc | aaagtgaggc | ttttgacagt | 60 |
| gtttaccgaa | agcaaatgca | cggggtgcaa | aggttccctt | gggacacntc | tgaaaaggat | 120 |
| ancagccctg | atggccagcc | tgaccctgag | cccagcccca | gccagcttc | tgatgacccc | 180 |
| aaccaggat | cctcacaata | aacttatcac | tccaacaaaa | aaaaaa | | 226 |

<210> 113
 <211> 390
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 113 | | | | | | |
| ctgtgttcct | ggtgcctgtg | gaggccagaa | gagaatgtca | cgatcttcta | aggctgggga | 60 |
| tgcagactct | tgtgagctgc | catgtgagtg | tgggacttga | acagcagcca | aatactttta | 120 |
| accctgagc | catcacttca | gcatctcccc | cacaccttct | ttaaaacagt | ctcttgtaac | 180 |
| cataactgaa | aactatcttg | aagcctgaat | actcccactg | ctatcttgag | tgtgtggctt | 240 |
| agcatcatgt | atcacgcctg | gtctatgggg | ttctggagtt | gaaacaggac | ttcctgcgtg | 300 |
| ctaggaaaac | actttccaac | caagatacat | ctctaccaga | attccttttt | tgggtattttt | 360 |
| tgtttgtttg | gggttttttt | tttggggggg | | | | 390 |

<210> 114
 <211> 262
 <212> DNA
 <213> Mus musculus

<400> 114
 gactgaggca tgctgcagaa gtgtccttcc atcgatgact ttgtggatgc cctcgtgtct 60
 gacatgaatc tggactttga aacgttcttc ctggattcta aatagcagca gcatggctcc 120
 cgtggataag aaccttgtca ccagaccctc cagctaggaa agctcgtccc agcttcagcg 180
 atcactgagg agacattttc tgacaagcct taaattgaca ggactcagaa taaatagtaa 240
 tgtttttaatt acaaaaaaaaa aa 262

<210> 115
 <211> 297
 <212> DNA
 <213> Mus musculus

<400> 115
 acacaatgta ctccgcnaca tccanctaac tcaactgaan antgaaccgt tncagcctcc 60
 anaaggggaag acagtgatgg tggcactgga ggcccagctc ggaatgtcgt gggctgaggc 120
 caaggggcag cctctacctt antcoctcca accctactgg gcaccttccc ctgacctgcc 180
 canctcggaa tgtctgtctt gggctgaagc caangggcag cctctacctt atttccacca 240
 acctcaccgg gcaccttccc ccgactcatg cttttactgg taaaccgctg ccactgg 297

<210> 116
 <211> 144
 <212> DNA
 <213> Mus musculus

<400> 116
 tgatctgcaa ataaacgcaa acnacagggc cagcagcag cctcagcccg acgtgtcttc 60
 ctctgtccc gggctcaaaca attgtggcag taccctnta tctgtcnctt nnagcttcnc 120
 cnttgnccaa acccccgatt tcca 144

<210> 117
 <211> 463
 <212> DNA
 <213> Mus musculus

<400> 117
 caagccggac cctccggaag gcgtgcgcct ggcacacagng ggacacgcgc ctgcagggtgc 60
 tctggcatcc cctgcttcc tggcccttcc cggacatctt ctctctcaag taccgactcc 120
 gctaccggcg ccgaggagcc tctcacttcc gccagggtggg acccattgaa gccacgactt 180
 tnaccctcag gaactcgaaa ccccatgcc agtattgcat ccagggtgtca gctcangacc 240
 tcacagatta tgggaaacca agtgactgga gcctccctgg gcaagtagaa agtgcacccc 300
 ataagccctg aagagggact ggatccttga tatcagaccc tgatgtcgtc tacttgaggg 360
 tggcagggtg gcctgtcctg agtctgaata ctgactttcc atgtactggg ctgctccgaa 420
 gcactggata attcacttga ttnttnagac ctcaattttc aaa 463

<210> 118
 <211> 311
 <212> DNA
 <213> Mus musculus

<400> 118
 gtctagggat cggaagatgg tgggtgatgt gactggagcc caggcctacg cctccactgc 60
 taagtgcctg aacatcagca ccttggctct cagcatcctg atggttggtt tcaccattgt 120
 tagtgtcatc atcattgttc ttaacgctca aaaccttcac acttaataga ggattccgac 180

| | |
|--|-----|
| ttccgggtcct gaagtgtctt accctccgca gctgcgtccc tccttgcccc tccctacacg | 240 |
| cagggtgtaac actcatttat ctatccacag tggattcaat aaagtgcact tgataaccac | 300 |
| caaaaaaaaaa a | 311 |

<210> 119
 <211> 320
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 119 | |
| tttccaaaat gcctttccag gntagaacca ggctgcggat ctgctggcgg gacacaacag | 60 |
| tccatgcatg gacntcccta ntccattaga accggaanag gtcagctcag gaccttttga | 120 |
| aaattcnatc aggcaccctt cccctcctgg aagaaaangt gaggaacaa tctggaatga | 180 |
| gataggctga ctaagccctt acaacctcat tccctaaana ccgattattt taaaggggtg | 240 |
| actgttctgc caatcatatt gtgcctantt gctgatgctc tattctgccc ctggaaactg | 300 |
| tntaaaaact cattgaccaa | 320 |

<210> 120
 <211> 284
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 120 | |
| cttacctctc ccaatagtat atcacgcgaa tgtgaatacc accctgggtg aaatnggcc | 60 |
| tcttcccaacn atactcccaa actctgatct gctcccantg tcacataacg cncangtgct | 120 |
| gcgnccntgg ancctencnc tgtctctgga tgnacnactn ttgccacatt aangntaagc | 180 |
| taatgnttga ctntgaaata aacatncctn nacttgacnt nggctnctna aggcctgggg | 240 |
| aggcaggacg ctctctctct tooctttggt aggtcttttg gtct | 284 |

<210> 121
 <211> 154
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 121 | |
| tttggggtaa atacaaacac nactgcggtn gtatgaacct cncctctggca naaatcaact | 60 |
| gcatnnggtcg tgggtctttcc ccatccagga tttatcnng angcagtctn ccaatttctg | 120 |
| aaacctnatg cncatcantt actttgggct gaaa | 154 |

<210> 122
 <211> 376
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 122 | |
| ggtagactct ctgctccagg ttctcaagga aaagggagga actgccagct gaagggacaa | 60 |
| cgacaagggc ggcttccaag gagcaaaaca aaacccttca aagactgcct tctgcaaacg | 120 |
| tcaactctac tggaccatca acaagatttc ctttgtgcaa ttactttaac tattctcctt | 180 |
| atctttcaac cgcaactaaa ctogtgattt ttogagcagc atcttctggt ttgaacttgt | 240 |
| ttctgtgaac cactcactac ttagaaagag ctttccaatg aacgcttttt ccagctaggc | 300 |
| ttttgttgga ttagattcag ggctccaatt tgctaccatt cacaataaaa agcttccgtg | 360 |
| atcacgctgg ccaaaa | 376 |

<210> 123
 <211> 161
 <212> DNA
 <213> Mus musculus

<400> 123
ggaaaaaaca aaacncagct ggattcaaan tccataanta atttggaant aaanaccatn 60
cctggganca agtcagtgga cncctgggac tatctggaca gtaattanca aatggatnan 120
cctgaaangg gcataatgcat aataattatt tgtaagcaac t 161

<210> 124
<211> 185
<212> DNA
<213> Mus musculus

<400> 124
aggaccggac tggaatagga acatacagct ggcaaaacca gtatgcgagc ccagatatct 60
aaatnctgca ctgtttttaca tgtgtncctc cagtgtcatc gaaactgttg tctanaacat 120
aaaaacatgt tgggtaccct gaagaatgaa gaaaggggac tggtgaaaac atgggaaggg 180
cttta 185

<210> 125
<211> 115
<212> DNA
<213> Mus musculus

<400> 125
gggaccttca acctgcgacc tcgntttcttt cncgctgcc natccgtcng tcangacnag 60
tagtcacctc ggcncctgagc tcagctcang gtagcacccc gatgttggtt ccctt 115

<210> 126
<211> 362
<212> DNA
<213> Mus musculus

<400> 126
gctctacatc acctgcctct caaagtcgcg ccagctaacc agatccccga taagctcaac 60
aaagcctgtt cgttcaacaa gacttcccag agttgggtgc cagtagaggg tgatgctgac 120
atctgtgatt gctgcagcca tggcaactgt agtaattcaa gctcttcaca gttccagatc 180
catggacccc gccagtgtgc caagctagtt tctcgaaacc gcaggcacgt gaccgatgaa 240
gctgatgtca ctgtagggcc cctgatattc cttggaaagg ccaacgacca gactgtggaa 300
ggctggactg cttctgctca aacctctgtg gctcttgggt taggcctggc cacagtggca 360
tt 362

<210> 127
<211> 230
<212> DNA
<213> Mus musculus

<400> 127
cctcttctgt ttccgggaat caaanggaaa ataacatgtn tgtgtgcnac ccaccnggga 60
aancccaana agtggaataa ntgagaaaaa gtgggggtgca ctggaatgac tgctgctcnn 120
aggaggagtg gtggggnnct tcnggaccct nngggggatg naaatcgctn cccttcttgg 180
ggcctgttta tncaanttaa tgggtggaaat aanccccttt aacattaggt 230

<210> 128
<211> 160
<212> DNA
<213> Mus musculus

<400> 128
ggaatgggcc tcccctcnac cctttataag cgangttgcc nttaaacatt tnancnttgc 60
ttgatcttga ncananggaa taaaggtccc cacctccttc cttcntaact ggtntcgcaa 120

cantaaatat ttgagctttg atcagtaaaa cggaaaaaat 160

<210> 129
<211> 103
<212> DNA
<213> Mus musculus

<400> 129
atgagggtcta ccttancctg gtgctggact ntgttccgga naccnngtaa agaatcgcca 60
ggacgctata tcggaggcat cgcagacagg cctgtgatac tat 103

<210> 130
<211> 130
<212> DNA
<213> Mus musculus

<400> 130
aggggagcat gggcctctat actggaaaag gcctgggaag gataacttca ctcaggaata 60
caaaatgacc taaatcacag gaccanctgt cccgntcccc attctctccc ttaaaattaa 120
ggtttttgca 130

<210> 131
<211> 201
<212> DNA
<213> Mus musculus

<400> 131
tgcccaacgc agcccggatc gtgggagccg cgcgacccag gagtcgtcct tgcacggctt 60
gcaagaacat ggcttgcttc anaaagaaaa tagtttngtc ttctctaaca acttactttc 120
agctngtcga aaatgaaaat aaaaagcact ggagagaaat aatttctngc actttatgaa 180
tctattttta aaataaaaaa a 201

<210> 132
<211> 240
<212> DNA
<213> Mus musculus

<400> 132
cagggatcct gaattgacct gggctctggg ggcaatntgg atgcctgtnt gatcactgca 60
gggggtgcca acctgcaaaa agcattnacc accccnccg ancccttgca aaaacctggc 120
cgttacnata ttgtcctcgn aaccacncc ttcctnacc gggaantnaa acccctgacc 180
ctggaacttc ttgaggaaac tgtgcaggcc atggaggtga aataaattgg cctaaaattt 240

<210> 133
<211> 215
<212> DNA
<213> Mus musculus

<400> 133
ttaagcctga aacctgcttg ctagggttgg agcttccccg ctcaatcttt ctgcccgccc 60
actgctggaa cctgcccgtt tgctgttccg aagccatcac gtgatcaacc tgctactgga 120
cttcaagatt atttgccggg aattggggcc ctcccgttcc ctttataact gaggcgcgaa 180
atagtaaaaa ttgaaccttg agcagaaaaa aaaaa 215

<210> 134
<211> 103
<212> DNA
<213> Mus musculus

<400> 134
 ggtgatggca aggaactaac tgaagacatt actgccctgt ccccttgga atgcataga 60
 aaagaaatag taataaagta atttaagaat cacaaaaaaa aaa 103

<210> 135
 <211> 192
 <212> DNA
 <213> Mus musculus

<400> 135
 gatggctgca gcccacaagga tggagganaa aanccagaga cttcagannc agcttactga 60
 ttngaaattg ncaancaann ncatgactgg actcagnttn acgcaggaat agcatgtcct 120
 taaagcacia gcncaatctg gagnaggent cangncaatc ctgtancaca taagttgaaa 180
 acctctggaa ag 192

<210> 136
 <211> 380
 <212> DNA
 <213> Mus musculus

<400> 136
 atgcttgatg aagctgatcg tgacggggat ggagagatta atgaggaaga attcttgaag 60
 atgatgaaga agaccagcct ttattagctg cttgggtgcct tccaagaggt ttggacctcc 120
 tgttaacagc tttcctgtta agcagttcaa tgatgtaata cctgagtgtg tccatttcta 180
 cgtttagttt aggttagtcc cttgggtgtct aatctgtgcc agaagttata tgtccctacc 240
 aatgtcatta aatctgtagt agtaagaaac aaacagacaa acaaacgcat gatttatttg 300
 aactgtgagc cccaaaacag tatttccata tgggtatttta aagtcgtana ttccaaagac 360
 atttgacttt tatttttcag 380

<210> 137
 <211> 250
 <212> DNA
 <213> Mus musculus

<400> 137
 ggggtgaacag ccagcagaat gtgcagcaga gcccagaatc cctcattgtc ccagagggag 60
 ccaggacctc tctcaactgg acttttaagt ggncagggtg cttttaagta tttctgggtg 120
 gtacagacag cattctggga aagcccccaa ggcactgatg tccatcttct ccaatgggtg 180
 aaaagaagaa gggagattca caattcacct caataaagcc agtctgcatt tctccctgca 240
 aaaaaaaaaa 250

<210> 138
 <211> 261
 <212> DNA
 <213> Mus musculus

<400> 138
 tgaaagggtt tgctagagca tcctgggnag aatcatcttg gaggatgggt ccagtcctgt 60
 atgacttgta aaggaaagag tcaccttacc tgngaattgt ccatccacct cataaatatc 120
 catttttaaa acaagctact taaaatccac aacagaggac tccctgtgcc gctatcccc 180
 cttgggacaa tccacttcaa tctgtttggc tggcttgctt tgctttgcta aataaactgc 240
 ttccatgctg aaaaaaaaaa a 261

<210> 139
 <211> 479
 <212> DNA
 <213> Mus musculus

<400> 139
 tttaggttagc tctctccgtac atcagctgct acaccaggtg cctggaacat gagtgtcccct 60
 ctgctggccc cactctggac tttttgggtg gaatcagttc tgaaatggca ggggactggc 120
 atcagccagt cctcagaaga cattcctgag cactgagttg tcgttactga atgaagataa 180
 tgtcactgga tttgctcagg gctctcaaaag caagatacac agtgtcatca gcgggctctg 240
 gaaggtgggc agcgtgcct cattgtggaa gtcctcccga ggctctcttc cctgtttgct 300
 attgagctgt tctccctct tctggccctt ggacctctcc atatttctca atccatctg 360
 ctttagtagc tatggaaatt ctgtgtgcat ttgctgtctt cttgccgata cgttttcctt 420
 ctctgncact ttcacttttc attttcaaat gaaaataaaa gtatttgttt tgtggggag 479

<210> 140
 <211> 518
 <212> DNA
 <213> Mus musculus

<400> 140
 tccagacccc ttccaggctg aggacccctt caagtccgac ccattttaaag gagctgaccc 60
 cttcaaaggt gatcctttcc aaagtgatcc cttctcagag cagcagacag cagctacaga 120
 cccatttggga ggggatcctt tcaaagaaaag tgacccattc cacagctcaa gcagtgatga 180
 cttcttcaag aaacagacaa agaatgaccc atttacctca gaccccttca caaagaaccc 240
 ttcccttacct tcaaagctcg acccatttga gtccagtgat cctttttcat cctccagcat 300
 ctccctngaaa ggttcagatc ccttttgaac cctagacccc tttggaagca gctccttcag 360
 cagtgccgag ggcttcgctg acttcagtca gatgtccaaag cccccacctt ctggccctt 420
 ctccctcctnc ttgggaggna caggattntc agatgacccc tttaaaagta aacaggacac 480
 tncctggtctg ccttcgaaaa agcccgttc tttcacgg 518

<210> 141
 <211> 369
 <212> DNA
 <213> Mus musculus

<400> 141
 ggtacattcc ttgaacttcc agcaacagat ggccttgacc gccactcac cgactgcacc 60
 atcgtcaaca gtggcaagat agatgtgaaa acaccctttg tggttgaggt ccctgattgg 120
 tgacagaaat ggcggaagac aggaaacaca ctggctggcc catgtgcaca totgtgatcc 180
 accagcagtc ttttagttac ttaaaagtgg tagttaaaaa aattttctcat ttaattttcc 240
 agtctcgatt gcaataacaa aatcaaccac acagtcagat gtctcaacaa acacctgtca 300
 tcccagtatt tgggaagtgc angcaggaag atcaagggnt naaaggccag cctggctaac 360
 agtaagttt 369

<210> 142
 <211> 238
 <212> DNA
 <213> Mus musculus

<400> 142
 agaactgggt ctgagccctg agacnccaca tgtacnccag caggaagcta ctgcagtggg 60
 gtgagacagt caaccacact tggacccaag ctgactttcc aggttctgac tccaccctta 120
 ggccctccag tgcacagcta cttcctgccc ctgaactgct catacctcct tcccttaggc 180
 agngctcttg atagacccac ggtactgctc accattatgt ccgactcaaa aaaaagaa 238

<210> 143
 <211> 407
 <212> DNA
 <213> Mus musculus

<400> 143
 ccggagctcg gccaaagtga tataaaaggc tagccacgcc ctggaggggg ctgtcttggg 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gcattggagg | agatggaaag | ttggagaccc | ataccacact | tcccaacatc | ctgaagaagt | 120 |
| tcaacccttc | catcactgga | ttctctactg | gtaccctgga | caacaaggca | ggattaaatg | 180 |
| tggcagaaga | aggagccaga | gtccaggaca | tgccggccca | ggctaagacc | ctggtgaaga | 240 |
| agatgaaaag | cacacctaca | atcaacctac | aggaagactg | gaagctgatt | acactcctca | 300 |
| ttggaaacaa | cgacctgtgt | ctttactgtg | agaatccgga | ggacaactca | actaaaagag | 360 |
| tatgtcaagt | tcatccanca | agccttggac | attctctatg | aggagtt | | 407 |

<210> 144
 <211> 440
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 144 | | | | | | |
| gaggtggggg | ctttcagacg | gctccacggc | cctgatgtgt | gcatgtgagc | acggacacaa | 60 |
| ggagatcacc | gggtccctgc | tggctgtgcc | tagctgtgac | atctcactca | ctgaccgcga | 120 |
| cgggagcaca | gcactgatgg | tggccctgga | cgctgggcag | agcgagatcg | catctatgct | 180 |
| gtactcacgc | atgaacatca | agtgtctggt | cgctcccatg | tcagactacg | agagtccggc | 240 |
| ttcgtcttca | gccgaggagt | gaatacaggg | aggagccagt | gagtcoccca | ggaccaccca | 300 |
| gccacaagcc | acgcatcaaa | ccgtccctcc | tccatccctc | tgtcccatto | tgctcggca | 360 |
| ttcctcagcc | cctgaacttc | cctgagggag | ccctgacatc | taccaggctc | aagctcctgg | 420 |
| aagcctttcc | cagcacaggg | | | | | 440 |

<210> 145
 <211> 165
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 145 | | | | | | |
| gagccttaag | gctcgtacnn | nggaccgtat | acctgcagac | tgcctnnnc | nnctcgtcct | 60 |
| ntgcagagaa | attcccttcg | cccatnctt | ctcctgccaa | actgaaagct | gctgcaggcc | 120 |
| attgagccct | gctgtcaaaag | gggtgggtgg | gactgggtgg | aggtt | | 165 |

<210> 146
 <211> 435
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 146 | | | | | | |
| gattattatt | atacatctgn | actgcgtttc | cagaacccca | gctggcccca | actttactgg | 60 |
| atttaaacat | gaaaatgcag | cagctgaaga | agaggcagga | ccaggagcta | gcttccaaac | 120 |
| cccagagccc | gcaggataag | gagatgaatt | ccgagtgtgg | aagcgcatag | tggagagtcc | 180 |
| gaggccacca | ctccaaagca | accctgagcc | ctcgcgctaa | cagggcgctc | tgaaaccctc | 240 |
| ctagcattaa | cactagcgat | gcttatgtgt | gctctaaagg | acaatttgto | cagcgaaaac | 300 |
| ttaggcttaa | ggaagaagtg | gggaaaaaag | ctaagaaagg | gggcgagact | tttttgtttg | 360 |
| tttgttttta | aaatgttcat | tcattggttt | gactggttat | tgncttatta | gtcgaaagga | 420 |
| agaagggtga | aagga | | | | | 435 |

<210> 147
 <211> 143
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 147 | | | | | | |
| attcaagcca | actactcgct | gatggagaac | ggaaacancg | aagtgcctaan | canggagctg | 60 |
| agtcctgatg | gaaccatgaa | ccaagtaaag | ggtgaagcca | aacagagcaa | cgtctcagag | 120 |
| ccagccaagc | tggaagtcca | ggt | | | | 143 |

<210> 148

<211> 237
 <212> DNA
 <213> Mus musculus

<400> 148
 agatgccctc tcttaggttt agaaatcgct ggaataocaa agagcaacgc ttcctctggt 60
 gggcagctga ttcttatctg tacatgggac agggcggggg ggcagggggg ggggagtnca 120
 tacatnanga ccognagggc ttgnnggcca atcannctag nccagncagt aagctccang 180
 atccattgng nctgtggtct tcaagagctn tgnacaccca cagacataaa aataaag 237

<210> 149
 <211> 311
 <212> DNA
 <213> Mus musculus

<400> 149
 gtcaaagcac agctcgaaga ggaaccaat gagaaatatg aaatattcaa agccgttgag 60
 tataaaaactc aagttgtcgc tggagtcaat tacttcatta agatggatgt aggggtggt 120
 tgtttcaccc acataaaagt cttcaaggat ctttctggaa agaataattt ggaacttact 180
 gggtaccaga ctaacaaaac cgaggatgat gagctgacct acttctaagc agcaaattct 240
 aaagtgacct gattcctctc attgtaaact gattcggcca tcaataaaga aatattctcc 300
 aaaaaaaaaa a 311

<210> 150
 <211> 241
 <212> DNA
 <213> Mus musculus

<400> 150
 gatgccccta gacctggatg cctgtctctc agaagagcgc agggcccggt tccgaaaacg 60
 ggaggctcag ctccagcaga agagggaaga agagccagag gtggtggaca gttttgacac 120
 tgaacgatat aaacagtttt ggaccaagac caagaaataa gtctgtcagg gagttccacc 180
 agggacattt tgtaaggatg gagggcatct atctattttac catacgttct tgaaaccata 240
 a 241

<210> 151
 <211> 483
 <212> DNA
 <213> Mus musculus

<400> 151
 cgcccccgga accctgnttg natctcctga agngtcctgc ngncnagga aagngaccct 60
 acncccggtt gaagncctcn tngnnccca cagacggntg cccagatcng cangacgagc 120
 atnccgnnc accctcgccc tngaccctnc anccttctct agagaccctt agaccttgaa 180
 ctncactcc caacagcact gaccacctgt cccaccaggc ctgataaact ttaccatact 240
 tttcagcnaa aggtgacaca tggangctct gaccaacctt atccatctac aacaaaaagc 300
 ttgcatgggg aattcatggt ttgtgccttt gagatcaact ccttagcata actatgacaa 360
 aattngatt taaactgatt aaatatgaga tcaggtgaaa gtaatagata caaagtagaa 420
 tcagcaacca aaatgctctc atttttaata agccatgtaa taaaattcct attatcttca 480
 taa 483

<210> 152
 <211> 310
 <212> DNA
 <213> Mus musculus

<400> 152
 gccccaaaga agctggaagc acttcagaag cacagactgg gggagctgcc agcccgagacc 60

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ggggatgaga | acataacacc | ttaaactnccc | attccccctg | caagcgcccc | tcctggacaa | 120 |
| cgctttgctc | gcctttccct | ccgagatcaa | taaccgnacc | ctgcaccctc | cctccgggga | 180 |
| actgattaga | acaaccggcc | ttcgctcctc | gggtcactaa | attctccact | tcgacctttc | 240 |
| ctcccgcccc | ctccccgaaa | gcacgtgcaa | aaacgggtaa | aacggtcttg | gtagctggca | 300 |
| aaaaaaaaaa | | | | | | 310 |

<210> 153
 <211> 397
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 153 | | | | | | |
| ggcaggctgt | agcgccacca | ggctgcctgg | tgacgggcag | acgagcaccg | gagacgcctc | 60 |
| ctcgcaagag | cctccctcgt | accctcccat | ccaggctcatc | caggccagag | tgtcttccag | 120 |
| cagctcctct | gaggtctcct | ccatcaactc | ggacctggag | nggnaccctg | nagatgnan | 180 |
| ccttgaaagg | aaaaaggacg | gngaacnct | tagagtgcag | gtgcgcangg | nctgtnnag | 240 |
| ccngtggat | ttggcctctg | atgactaaca | tnntcgggag | ccaagnctn | agntnggaac | 300 |
| tcaaagtcgg | gagtctgtca | ntgactagat | ggggaccaan | ctatnaggcn | accaggtna | 360 |
| ggaatggaag | ctgctannga | cactcctcag | ggagtga | | | 397 |

<210> 154
 <211> 343
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 154 | | | | | | |
| aaggtcagaa | caacancaac | aacagagacc | tnncagggttc | tcattctcat | tgcttaaacc | 60 |
| accagaagc | atctttggcc | tattagncaa | gcagcaagat | ggcttgnaga | aaagaatnca | 120 |
| tatcatatac | gaacnantgg | agccaggctc | caaanccctna | actttncaca | acctctggag | 180 |
| cagcagcagc | agcccagagg | ccaagcatcc | agagcactaa | ataattaagg | tcagaacaac | 240 |
| aacaacaaca | agacctccca | ggttctcatt | ctcattgctt | aaaccaccca | gaagcatctt | 300 |
| tggcctatta | gtcaacagca | agatggcttg | aagaaaaaaaa | taa | | 343 |

<210> 155
 <211> 120
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 155 | | | | | | |
| accacacag | tagcaaata | accaactctg | acctccccctc | tccccctccc | ctctccttcc | 60 |
| cctctccagt | agtcactcca | gagacaccca | aaataaaaaa | tttaaatgta | aaaaaaaaaa | 120 |

<210> 156
 <211> 120
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 156 | | | | | | |
| cctctottag | gtttagaaat | cgctggaata | caaagagca | acgcttcctc | tggtgggcan | 60 |
| ctgattotta | tctgtacatg | ggacagggcg | gnnggncang | ggggggggag | ttcttaaact | 120 |

<210> 157
 <211> 356
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| <400> 157 | | | | | | |
| gcaaggtgag | aaaattattc | tggagttcct | gtcgaaggtc | ttgcnggtgc | cctttactgc | 60 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| catgtcggag | gagagcatct | ccgcgaagct | gaagcaactg | aaagccgagg | tggtcgcaaa | 120 |
| gaacaacagc | ttcgtaaaacg | agatcatttc | acggataaag | gctccggctc | cgtgagggga | 180 |
| cagtgggtgg | gcgtgcncgg | gggagctcac | ctttactgtg | tgctgttctg | ggtagtgctc | 240 |
| cccactggaa | cctggcctag | cagcatccgg | aagtgtttag | tgatgcttga | aaacattacc | 300 |
| gtctgtagct | gggcgctgtt | taaatgggga | cgggcancgt | tgagcactat | gctgaa | 356 |

<210> 158
 <211> 152
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 158 | | | | | | |
| agcagggatt | cccaaggatg | aagccttcag | cggacgcttg | agccccccga | gccccaaaca | 60 |
| caactgtacc | ctgttacttc | tgcttcagct | ctgacctttt | ccgtcctctg | taaatacaat | 120 |
| aaaaccccca | ttctcatctg | caaaaaaaaa | aa | | | 152 |

<210> 159
 <211> 572
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 159 | | | | | | |
| tcctcctgat | ctggaagaag | ctgccaaaac | tgaggctgag | aatacgatca | cctactcact | 60 |
| tctcaagcat | cccgaagccc | tggatgaaga | aacagagcat | gattaccaga | accacattta | 120 |
| gtctcccttg | gcattgggaa | aagcaagcca | gaaaggccag | gatctagtgt | ctcctgggtcc | 180 |
| aagggatgct | gtagatatta | aagaaaacat | ccagagtcac | ttctgtgagt | cctgaaacca | 240 |
| acagacacta | agagattggt | tcccagtggt | tgactgtact | aatgactccc | ataacttaca | 300 |
| gcttcccaac | tcaagactct | tctgctatcg | atccacactg | ccactaaaa | taatcaactt | 360 |
| actgccgtta | agagactgca | gcaacgtggg | aactgcttat | aattcacgct | aagataagga | 420 |
| gaacaattaa | tgttaggatg | catcatctcg | gtgatgataa | accagacttg | taccaacctg | 480 |
| tcaaaggtga | tgcttcttta | taaggaaact | caattttttt | tattttttct | taaaggncgc | 540 |
| atggtacttt | aatagtaaaa | tgttgtaaaa | ac | | | 572 |

<210> 160
 <211> 207
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 160 | | | | | | |
| aaaggttata | aaaagaaccc | aacctctaaa | cctgggaaga | acagtgcctc | agaggaagac | 60 |
| catctgcctc | ttcaggtcct | ccagtccac | tgacgggtcca | gatgcggcag | cagcaggctg | 120 |
| gcagggtaga | gtagggaatt | ttgccagcca | cacccgaggc | tactgaattt | tggtggaaat | 180 |
| ataaatattt | tttgcataaa | aaaaaaa | | | | 207 |

<210> 161
 <211> 121
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 161 | | | | | | |
| ttaaggaatt | atcctctagt | gaagtttccc | tgtgaagact | caaactctgat | tttctgagca | 60 |
| tttctacca | cagctggaag | cagagctgga | tattaaagga | gctacctctg | aaaaaaaaa | 120 |
| a | | | | | | 121 |

<210> 162
 <211> 167
 <212> DNA
 <213> Mus musculus

<400> 162
gactgagatg aggtcagcaa gacccagana gcnncctggg tttgaccnga ccacaagccc 60
ccctgaagat gtattctaca aaccocggga gctgggtcac ctttgatgat gaccctgctt 120
ttcaatcttc tcagaaaaa aaggattttt ctctggaaaa aaaaaaa 167

<210> 163
<211> 320
<212> DNA
<213> Mus musculus

<400> 163
ggagccggtg tggcagcagt accaagatgg tgcccaggac tgaagctaag tcttatgact 60
tgtatctgac ttcttcatac acctgaaagt aagccacgan catcgtgtga actgcgcagg 120
tacacatga tgcaagatcn gaccatatga cangtgatga ttctggctga tggactgctg 180
ntacatggac tgnngctgatg gggcgtggnt gaggggttgt ataagggtt gcaattggcg 240
gcgaggnga angaaanatt actananaga ntgantnctg nagaaagatt cctgnntgca 300
tgttgaaagg ttcctgaata 320

<210> 164
<211> 476
<212> DNA
<213> Mus musculus

<400> 164
actgaggttg agtgaggatt tgccatgtcc caggcattag cctgagtga acaggaagt 60
cgccctctca ggaactgatt tgagaccccg agactccctt ccatgatgct ctacgccacc 120
atggaaacac cggaagcctt ctgtctgcca agccctgacc tgggcgctag ggagactgat 180
gaattgatcg gacatgacat tcacactcca gtaggctggg agagcatacc tgaggaactt 240
aacacagtct gcagacttac tggagacggt ctcatgtagt ctaggctagc tatggacttg 300
ctttgtaggt acagataggc ttgattttcc cccatttttg agacatggtc tctctatgta 360
acccttggct ctcttggaat tctctgtgga ctaggctggg tttgaattta cagaaatcca 420
cctgcctctc tgccctctctg gtgctgagat taaagggtgng cccacccaaa aaaaaa 476

<210> 165
<211> 450
<212> DNA
<213> Mus musculus

<400> 165
agtaatatcc attatgactc agggatgggc totaacttnt ccttotgttg gaggtcantt 60
caggggtagc gtttgccctaa tnnntagcgg ggggaagatgc tagtgcncaa gatctgcnat 120
gtacactnnc ccttggaactt catcgccagc aaggagatcn anctgggtgc catcngggcc 180
taaaanattg tggatggccn tncccganac naactgggag tgatcnggac catcatcctc 240
agatctgcca ttccacgant tctctgtgga atanactctg cttgngaong accctcctct 300
ggtgccatna taaatanncc cctntgana agcgtcacnt ccccancttc cttnonngct 360
ggaaangnca ggntggcctc caatgctntn tncctccggt cctngcctcn anttnatttg 420
agtntnataa nctntcgtaa cggattaccc 450

<210> 166
<211> 429
<212> DNA
<213> Mus musculus

<400> 166
ggtcccagac agcatggggg ctcggttctt cctggctota ttcttggtca tcttgatgtt 60
gggaaatgag gtccagggga accaggaaga tgactcgggc agcctggctc tgctgggcac 120
ggtgcanggc tccctcttaa gttactggac ctctgccaag gaggttgcca aagacctgta 180
ccagaagaca taccgatca gcatggatga naaattnagg gacatgtaca gnanaagctc 240

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcggncatg | agcacttacg | caggcatttt | tacagaccag | ctccttactc | tcttgagggg | 300 |
| agagtagctg | ccaaagcaag | ccccaaagtt | ggggaaagga | aaacctgatg | acagacaccg | 360 |
| cgctcttttg | ctcgcgtcac | cagaccagga | tggncctaca | ccacctgtgc | ccaactggtc | 420 |
| cgcttttctg | | | | | | 429 |

<210> 167
 <211> 106
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 167 | | | | | | |
| aaattcttgt | ggataaaaaca | cncaatggat | nntgtaagga | agcagcctcn | cgcttacgct | 60 |
| tccccnngcc | cagatctttc | ccancatggg | aaatatcttc | cctctc | | 106 |

<210> 168
 <211> 286
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 168 | | | | | | |
| gactgacgct | acttggcctt | tgagctatga | caaagacaac | tgtgatgtac | aattccaccc | 60 |
| agagatactg | cacctacagt | gtgggtggatc | ggaagnaccc | aggaagacc | tgctcgagttg | 120 |
| acagctggac | tatgtaaagt | tgcttcgtgt | gggccccaaa | gtggagtaac | atttgaacct | 180 |
| tgatgatatt | aaatttacca | atcataagct | tgcaaggagg | tgacctgtaa | tcccagcact | 240 |
| cagaaggcag | aggcagcata | tcttgaaaaa | ctcaaataaa | taaaaa | | 286 |

<210> 169
 <211> 419
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 169 | | | | | | |
| cgacctactg | ctcaccgcgc | tcgncaccag | ncgtncggca | cctccgncac | cactaccagc | 60 |
| acccccaccc | cagccacagc | agccccactt | cctcccacca | ggctacctct | ctgctctoca | 120 |
| cttcttgcca | ccgcgcgcac | cgccaccatc | tccaccatct | ttctcgctga | cctacgatac | 180 |
| agacaaggag | aataccaang | accaggatgc | agaagcacc | accgagccca | gccaggactc | 240 |
| tccccaggag | cagtccaact | aagctgcang | ccacctggaa | ggccaccggg | tggnagcggg | 300 |
| catagatggc | gggggttatt | tttttcacca | tggtcatggn | atnattagga | agaaagggat | 360 |
| actgatangg | ngtaagaagg | caggcggaat | ncctactnca | ggntagaaag | ggcacaagg | 419 |

<210> 170
 <211> 567
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| <400> 170 | | | | | | |
| acaccattca | agcttgca | ggatctgaca | agatgaagcc | cagacatgca | cctgaaggca | 60 |
| cgggaggctg | ctgtggcaag | aggaaaaact | gctagatcta | cggccagcgc | ggagcccacc | 120 |
| gggtcaaga | gggtggctaa | aggacagtca | cagaggcttc | ttagcctgct | cttcgccagt | 180 |
| gcacagatta | tgtgaagggtg | gcaaagccac | cacaagctag | accactgcta | agaataagag | 240 |
| tgacttttag | aggatgttaa | ttgaagggtc | acagcaaate | gcctgctttt | ctatttctct | 300 |
| atctcagagt | tctgggtgcca | cctagtgggc | agaagtanaa | cttggaagcc | caaggtttac | 360 |
| tcaaagggcc | aaaggcatca | tcaacgttgt | gagaattatc | ttccttcttg | cctaccacag | 420 |
| gacacctctg | ggttcttctc | tgtggttacc | aggaancaca | gtacttacta | aatttatgct | 480 |
| aacctgaca | aaanattgtc | actccaaatt | tgctaggaat | tattcttttag | gttgctgtct | 540 |
| gcaatttttt | tctctgtact | gaatgaa | | | | 567 |

<210> 171

<211> 239
 <212> DNA
 <213> Mus musculus

<400> 171
 gtggcaggaa gaggantagt gcnggagagg agatggagag aaaactgggc ctgtcctgtg 60
 atgcacttct gccagcaang ccacgcctcc cagtccctga agtgtcactc cctgaagatg 120
 aagcattcaa atatgagtcg atgagagcca ttcttgttca cgtcgccata nttgtggagg 180
 ttggacccag cactcaanac tgttataaag aatttttgc tttgttttaa aaaaaaaaa 239

<210> 172
 <211> 279
 <212> DNA
 <213> Mus musculus

<400> 172
 tgggtccaaac aatgcgggta cggagcgcg ggtggcgagg ccagagggtca gatccagaca 60
 ccttatgtac tgcagatgct acctgaagag tcnatgatca gcctcggatc gatcaactct 120
 ctccagagca cgggtgatctg agggaaaaaat acaaaacacc acacttaatt cattcttgac 180
 tccacgtang ctnaaaacta tggatnagtt nagcaagttt ctgtgaagaa tggtttagatg 240
 atgaaaatac tttcaaagct gataaaactg agtttaato 279

<210> 173
 <211> 631
 <212> DNA
 <213> Mus musculus

<400> 173
 tggacctgag cagactggaa gccangatgc ggctctggat ggcatcaccg tagctgtgga 60
 cggggcaacc tgaatgtgga caagcaaaac ggcgtatgaa aaaactgatg tantggggca 120
 agctgtaaac agccaccctt ggcattggtc tgcgtattct attgctatta gcccttttcc 180
 tttcccttga gancgggaag ccattctggg tactgtgaaa ctatgaagcc ctacctggga 240
 atacaccttc ctaggatggg ccaggagaag ccacaatatg catgaacatg tatgtttccc 300
 ggggcccctaa ncatgaaggc catgtcctgt tcangcaana atcgccaccg tagcgtagcc 360
 atccttctctg tccacactga naaccggcg ttgaactgcc attgtggcat catgttgtca 420
 catcatattg tcatcttttc accatttttg ccaaacagta aaaaaaatg tcagtcattc 480
 tgggtctggc tctgccatcc acttgccana aacatcaatt cccctttnaa tgcgtctgtc 540
 ccccttgcca ctttctctgn tcatcagtta aaattctgtt ancaataacc cctgntttnc 600
 cttcctaaaa aatgtttatt ccaatgaatt t 631

<210> 174
 <211> 723
 <212> DNA
 <213> Mus musculus

<400> 174
 cgggccttaa tccaacntgt gtatcctatg aggtcngtgg ctcaatnnn gtgtgtcccc 60
 aanggaacnt cctgtnactt tgccagtnca tttctatnag ancggaacac tnttgttctg 120
 tgtgtcnacn gcgtcnggtt tgatantgan ccttcancat notnotcatg cncocatana 180
 ttcaccattt ggactctgtc actaaatcac ataagataca gtanccncat ttgctattca 240
 atcctaagcc attttgcaca cctgctgggt tnatattttt aatnttattc aatttttgtt 300
 tttgtttttt aaaacaaaat ttctctgtga agctcttctt gtcctgatag taggtataga 360
 aaccacataa gccagctgac atagttttgt gcaataagca tatagttttg tgcagcnttc 420
 naccacatct ttaattttga aaattgggca aatatatagg ttatattna atttctaagg 480
 anggcataat tcataacatc aatgctatcc aaggcttcaa aatcattgga atgcntggtn 540
 aactaantct tttggttgtt cnaaaaatgt tgaataaatt ggaattttng ccnntgtnc 600
 tgganatanat nacatatntt cncncccttn agaattgtcac aaaaanactc anaacncccg 660
 aactccngta anggttattg ttgaanccca tncctnccn aaattgaccc ccttgaagaa 720

aaa

723

<210> 175
<211> 653
<212> DNA
<213> Mus musculus

<400> 175
agccagcaat aataattaca atcactgatg ggagcaagtt gactactact agtgggtgtc 60
cagggatgaa gcttcattta cctctgaatt cgccgttgcc tggaagtga ttgaccaagg 120
aaccttttcg ttgggatcag agactatttg ctttagtgct gcggttgcc ggacccatgt 180
cgggtggaatc agaacagttg acaggtgtgc ctttgatga ttctgctatc acaccaatgt 240
gtgaagtgac aggaggccgg tcatactctg tatgttctcc aagaaatgct taatcagtgt 300
ctggaatcct tgggtgcagaa agtacaaagt ggggtggtaa taaactttga aaaggcagga 360
ccagatcctc cccctgctga agcagaaggg cagccagata tatcaagacc ttttgatct 420
cagccttggc atagctgtca caagctcata tntgtcagac cnnatcctaa aactggggtt 480
cctataggcc attggccctg ttccanantc tttttggcca gatcagaatt ctccaacact 540
accacctccg tacatctcac ctgtagtgaa attttccngt tccanactgt naccnatggg 600
tattgancaa ttgcctttt gaacaatata atttgaacct tccccctga ctc 653

<210> 176
<211> 228
<212> DNA
<213> Mus musculus

<400> 176
ggaatcaact gaggtgccct acggaagaac aggctgaaaa caaaaccgga ctactactga 60
tgcagcagct acttggtctg acagcgagaa ataaacctac agaattgtca aggaaatatt 120
gctaaaaatat ttttgaataa tttgatatgt aatcattaca tttagtcaaa aaattcagat 180
ttctagaaaa tataaagttt ttttttgtcg attcctcaaa aaaaaaaa 228

<210> 177
<211> 520
<212> DNA
<213> Mus musculus

<400> 177
cagcctgggg ttcatctcag ggataccatg tggcacagct gacattttta aacgcaaatt 60
atccttttga ctttcataag ttcatcagtc ttttaaagag gatgctgaaa tctttttttc 120
tgatcttcag attagacagt catgttgcta tgggtggttg taagattcta acagcagtg 180
aatttgaaaa caaacactgt gctcanggtg tttttcagca cacaccaa atcccaactg 240
tcttaattggc ggctgaatcc caaanaagca attgcnaatg cacattctcc ttggcattct 300
tanctggttt ttaagcggat tatttacnac nnaatttcac cagaaaantn tcngttggcc 360
ttgttgaatg cagctttttt ttgaaggccg ntggaccctn ctcttttctt tgttignaacc 420
nggataaggg gccgccgtgn ctggtcccaa atcnncctg ttacnctggc gnttccaana 480
atttccnct ggtaaggngt naagcgcct gtcccttccc 520

<210> 178
<211> 403
<212> DNA
<213> Mus musculus

<400> 178
gatggcctgc agtggaggga acattcggaa agcaccgact tatccttaac aagcaacaat 60
aaaaagccac taccocgtca tggaccggg agacggctca atgggttaact cgtgcacgat 120
tgaggatctg aactcaagtc ctcagaagcc acgaaaagcc ggattcaaaa gcattcacat 180
ctgtaattcc agaggctgtt tggggagaca ggaggcag acaggacagt ccttgggaagc 240
cagtgggtca gcttgccctg tgtacacag ccaacaaga gacggctgtc ttaaaacagg 300

agcagccctg atgttgcctt ctgaccttca cacccttgt gcttgcatta aaaatatgta 360
 ttttatttag aaataaaagt atgcgtactt gagaaaaaaa aaa 403

<210> 179
 <211> 497
 <212> DNA
 <213> Mus musculus

<400> 179
 gagttcctac attctcanga tcgaagacta catctncccg aaaacctgaa tggctnttgt 60
 tnccactgac cagtcttccc tctnaatgnc gtggnacnng tccnntntaa gataccacat 120
 ccttctnatn agttcatnat gagtggttgc ctgttgntna nnaagaatnc ggaactgnac 180
 cccaacacca aataganaan atctcagact gangatnant tnccagatag tnatgagnga 240
 tttanggan ctcacaaanc naacnaactnt gntgactcnn aaaaccttcc canaagggcg 300
 tcatcggtg gcttccantt tcttttctcc cattccccca gtgctactaa tggactgtca 360
 gtaccacagg tnagtctgta tgagtengac gcccancna nttctaattgt ggctcttcca 420
 aaactacaag cctggctaca tcngtgacag ccncaaaggg aaatttggtt ggcttggtaa 480
 actatcccga tgatgaa 497

<210> 180
 <211> 106
 <212> DNA
 <213> Mus musculus

<400> 180
 ccacccctg gaagctctgt gtcttntctag ggacagtggc acagtctntt ggataatgtt 60
 gccttggaat cttcccgctg tnttaagaat ggaatgtgtc agtgaa 106

<210> 181
 <211> 141
 <212> DNA
 <213> Mus musculus

<400> 181
 tgttttgagc gagaacatcg cgtcttcagg gaactcggga ctggcagatc ttcagtgtga 60
 agtgacacag ccatcgagcg angtttgag gcatacggag gagggagctg cttcatacag 120
 tctacttcaa gtaaaaaaaaa a 141

<210> 182
 <211> 213
 <212> DNA
 <213> Mus musculus

<400> 182
 ggaagatgaa aatgaagctg aaaagaaaaa cgcactctcag gagctcagca tggagcagaa 60
 aactccaaag aagtaaagga ttgtccagtg tgttctgaag cgtgtacaac ttaggctcaa 120
 gcagataacc gtttctgatt tataaaatgt taattgtaaa atctaattta caaaactgtt 180
 ctcaataaag tccttgaaat aggaaaaaaa aaa 213

<210> 183
 <211> 467
 <212> DNA
 <213> Mus musculus

<400> 183
 aaagttcaga tcaatacnac acgtnantca ttatctntnt ccgggtcttn gacnnagcca 60
 tccggctctc ggatcatntt gtancaccna ncnntcncc acnctgangg cgntcgtc 120
 cngcccccta acggggggang gacgtaatta catccctggg ggctttgggg gggggctgtc 180

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| cctctagaac | cccatcctca | ctgactccgt | cctggagttg | gatgaaanat | aatggcctta | 240 |
| cnttntgcc | ggggagggtc | gggctggatt | tancaaaatt | taccttctcc | aaananccgt | 300 |
| gctgcagtg | cacagctgcc | cacggagggtg | gggggggtccc | cgccctgga | ggtgatnaaa | 360 |
| aatgtgggga | tntggcactg | agggacatgg | ccnntgggca | cngtgggtgg | gttgggggtt | 420 |
| gtcttggggg | atcttgggaag | gttcccgggg | atctagggat | ctaggga | | 467 |

<210> 184
 <211> 241
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttgcaggtca | aagacagcga | gaaggttcag | aggaaagcga | tcccgtgcc | ccttccccgt | 60 |
| gcccgggctg | tcccgcacg | ctgccggctc | ggggatgcgg | ggggagcccc | ttcatctgcc | 120 |
| tccctttccc | accatccacc | cctccatttt | cttttcagaa | aatggctgaa | aggcgaaagg | 180 |
| ctggctctac | caccaccacc | acccacacac | acacacatca | accagccatg | acatatcatg | 240 |
| t | | | | | | 241 |

<210> 185
 <211> 167
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gagtgtgcta | tggaagccan | aagagggcgc | tagatncctg | gaacggagtt | gcaggcagtt | 60 |
| gtgagccacc | atatggtggt | aagaactgaa | acctgggtct | tctacaaaaa | acaagtgttt | 120 |
| tgaaatgctn | agccatctcc | ccagtgccta | cattaaaaac | aaaaaca | | 167 |

<210> 186
 <211> 200
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| taggcgattg | tacaatcngt | nacacctgta | gaggtggagc | tnaccnntcg | nggttaaaga | 60 |
| gcacanaacc | cttctctgaa | ttcctctnnc | ttacantaata | anctgggcct | gtgattctac | 120 |
| cacgtgtctc | cnttcccaaa | tgcaaagacc | cctgcatnca | ggaanattctt | ctgaataaat | 180 |
| gctttttgct | tttgcatact | | | | | 200 |

<210> 187
 <211> 352
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| agggtgcaggc | cgactggact | catgangana | aacccatctc | cngaccctct | actgacaccn | 60 |
| aggggcatgg | tgacagtga | gagccaggga | accagagtcc | agtnactcct | gccaaccatg | 120 |
| gaccctcgac | ctcctgtgct | gtccctgtat | ccagaactgg | gccacagagg | tttgtagagc | 180 |
| ctgggacagg | gacacaccag | agctnaggcc | gcattgcttt | tgtcnaagtc | tcctcctctn | 240 |
| actggtttca | ggaaatcaag | aagtttgaat | cacatactca | ttttacttga | aattatgtcn | 300 |
| ctngacaact | tatatatttg | gantcttgag | attgtttttc | tcttttctta | tt | 352 |

<210> 188
 <211> 962
 <212> DNA
 <213> Mus musculus

<400> 188

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|------------|-----|
| ctgagatctc | tgagaagtac | ggcctccccg | aggagaatat | ttgcaaagtc | tacaagaaat | 60 |
| gcaagcgagg | catcctgggt | aacatggaca | acaacatcat | ccaacactac | agcaaccacg | 120 |
| tggccttcct | gctggacatg | ggtgagctgg | acggcaagat | ccagatcatc | ctgaaggagc | 180 |
| tatgagggcc | cggcctcaag | cgtccacac | cgggggcccg | gctcaagcca | cgtacaacct | 240 |
| cttctgtgtc | agctgttact | tgaaatgctt | ttctttggga | aagagggtctc | gcaagcaacc | 300 |
| aactcgggtg | tgccaagcc | agggagagac | caagaagggt | ccaggatcta | aatgtcccac | 360 |
| ccaggctcga | actcactcca | gagcttcctg | aaagcaccca | gccacccgga | gagtctgagc | 420 |
| aacacagacc | caactgcctg | ctttctcttc | taagtcccgc | tgcaagggcc | cttacagggg | 480 |
| acgggggtca | caccaccttc | tctgcagggc | tacaccgct | gtctcgatcg | gttctgacgt | 540 |
| tactgggttc | ctttctacca | acttttagacc | agagagttct | cacactttgg | gccaatactt | 600 |
| gaaaactcgn | gactttttaca | gcagatgcct | ttgtgaaggc | ccttgganaa | ggaaaacttt | 660 |
| tcttaattgg | acntttcttc | gggcancaaa | gaatgtaaag | gtcaccatt | caatnnnaan | 720 |
| cctggaccag | gggaaccnaa | aattacccct | tttggccaan | cttaacctgg | gttgggnanc | 780 |
| cccaattttc | cntttnaattt | taccanggtt | ttttccaatt | ttattggngg | gaattntttt | 840 |
| attnatnnat | tanntantna | tgngggtnaa | aggtntttan | ttaaatttna | atgggncccc | 900 |
| ccttttttnat | tgggccccaaa | cnattttttt | gggnnaaatg | gggtccccca | ttgggttaaa | 960 |
| ca | | | | | | 962 |

<210> 189
 <211> 163
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 189 | |
| tgtactcttt | acctcctgng |
| gggactaanc | gaccttgaat |
| ntcttngttc | acgaagactt |
| cgacnngnat | tccgcgaatc |
| gcatncnagt | gactactacc |
| gnaatgtgaa | gaccttttga |
| gacataggct | tcattacggt |
| agatggaacc | gancttgcta |
| aaa | |
| | 60 |
| | 120 |
| | 163 |

<210> 190
 <211> 427
 <212> DNA
 <213> Mus musculus

| | |
|------------|-------------|
| <400> 190 | |
| ccagtgtgga | gactccctct |
| tctctgcagg | agccggagct |
| actgcctaag | gtggccccaa |
| ccactgtgat | ttctagttat |
| tcacagcatg | ataatggtgt |
| cctccctgag | tgcttgggtt |
| tnattgattg | tattgtgata |
| aaaaaaa | |
| gctgaccaga | gtgaatccca |
| cccaaccctc | cacaagcatc |
| agtttccagg | accccanaca |
| tctgggtgca | gcatgccttg |
| ttcctccaat | tggtttanaa |
| ctgccttggt | ganaaagcag |
| ggccttttgg | gctacaataa |
| ggtccgact | ggtctgcctt |
| tgctgcttcg | tcttgatgac |
| ctggagtggg | gaatcctgcc |
| gagacactga | aaacggcana |
| cacctacact | canagggtgac |
| gacggagacc | ttgcccccta |
| acttctctga | ggactttcaa |
| | 60 |
| | 120 |
| | 180 |
| | 240 |
| | 300 |
| | 360 |
| | 420 |
| | 427 |

<210> 191
 <211> 397
 <212> DNA
 <213> Mus musculus

| | |
|------------|-------------|
| <400> 191 | |
| cgggcttccc | aaggaaagcc |
| aaatggctat | gaaaatgggc |
| ggaccctaaa | ttctgagcat |
| aggggacacc | cccagccact |
| gtctcccttc | ctctaattcc |
| cgcaggcatt | tgcttcttgg |
| gcatcatg | anancaccata |
| gctgatgccc | tgacctcgct |
| caagaactca | agcatgggtt |
| ccatgagttt | atcaagacat |
| acctcaacag | agtcactccc |
| accacgcctc | cctacctgcc |
| gggtcttttg | ggagccaagt |
| gcaaaga | |
| gccaggaaag | |
| gagaagcaat | |
| ggcacaatg | |
| ccagtctgtt | |
| cctcttagct | |
| gccaagccct | |
| | 60 |
| | 120 |
| | 180 |
| | 240 |
| | 300 |
| | 360 |
| | 397 |

<210> 192

<211> 141
 <212> DNA
 <213> Mus musculus

<400> 192
 aggtgcttgg ccctgcgtga gaaagcaaga gatccacagc ggctgttact gttacggagt 60
 attggactca catggcttct ctgacccaca accttccttg gaaataaaga gccccagctt 120
 ggagtttcat taaaaaaaaa a 141

<210> 193
 <211> 159
 <212> DNA
 <213> Mus musculus

<400> 193
 ggtaagtctc gaaattcgat atcaagctga tccggaaccc ttagtataac ttcgtataat 60
 gtatgctata ctgaagggtg tcnngnncnt ttgacctgca gnctcaagct agcttatacng 120
 agaccctgtnn acctcngacc tcnagaagga gcgagggca 159

<210> 194
 <211> 149
 <212> DNA
 <213> Mus musculus

<400> 194
 aagcatagct actcagagag tcgtccctcc aaaggaactc ttccgcgtga agcccatctt 60
 ggtacatctc tggacacgac tgccccagcc actggagtag tctagccatt gtcccatcct 120
 gtttattaaa acgtttgaaa agaaaaaaaa 149

<210> 195
 <211> 114
 <212> DNA
 <213> Mus musculus

<400> 195
 ggacaaaaga atccgagtgt ctcaacccct gacaagagga ccaagtgcct ttattccaga 60
 gaaggaagta tggccatttg tttttaatac attatctagt caaaaactaa aaaa 114

<210> 196
 <211> 121
 <212> DNA
 <213> Mus musculus

<400> 196
 ttgatgcttc caaagcattg aggaagtcca taaagaaatc cgtgcacact ctgaggacgc 60
 catccgaaac gctgcacaga ggccactggg ggagctatct taaataaatc agtttccatt 120
 g 121

<210> 197
 <211> 171
 <212> DNA
 <213> Mus musculus

<400> 197
 aatatagtcc ctacagcgtc gagagacgga ggtctacgcc tgtatgaagg aagagactgg 60
 aagccctgtc ttcagccaaa gccagccac caaggagaag ctgaatagat ttgaggatga 120
 caacgaattt aaccttgtct atgaaaatct ctagaaattc aaaaaaaaaa a 171

<210> 198
 <211> 154
 <212> DNA
 <213> Mus musculus

<400> 198
 acttttaggtc tccgaagaag atatggggcac agtgacaaga ttctacctgg actgtggtat 60
 gataaccact gagaacact gctccattgc cttgcccact gtcaaagctt ggcctacact 120
 gtggataaat agaggctacc cagagaaaaa aaaa 154

<210> 199
 <211> 119
 <212> DNA
 <213> Mus musculus

<400> 199
 tgttcattgc tgactcggcc cttganataa atctgganac agcatccagc cgatcaccta 60
 ctggctggcg aagggcacca agaattgatt gtttgggggg ggcgggggag gaatggtgg 119

<210> 200
 <211> 154
 <212> DNA
 <213> Mus musculus

<400> 200
 cctgcgaaac gactgggtga ctggccggag gatgtggctg ctcttggttc tggctaccct 60
 tgtgtcctct gggaacccca catccctgtc agccagccca tgccccgcca gctcatggag 120
 ctcaaagaaa taaaatgaaa aacaaaagac tcag 154

<210> 201
 <211> 460
 <212> DNA
 <213> Mus musculus

<400> 201
 cttgtgcttc tggaacgcct ccancctttc gtcccntgct togatnagat ccccatcatc 60
 ctctcaggct ccagtcctctg agaataaacc ggaagaactc cactatgctg ctctcaactt 120
 ctcccgctg agactgcagg agaccagga tccccaagac acctattctg attacacaga 180
 ggtcagagtc cactgagggt gtccctggggc ttaggactga gacctaaatg gtaaagtagt 240
 taaggagacc tccaaaagaa agcagatgct ctcccttaaaa ataatcctgg gggtaggggg 300
 tgttaaatat gtgtgccacc aagcttgatg aactottaga ttgatcccgga ggaccgcat 360
 cgtggaaggg acctcccaca aactgacctt tgactcccca catgtgcaact gtggctcatg 420
 cctatgcatg cacatacatg taagttaata aatagatgct 460

<210> 202
 <211> 151
 <212> DNA
 <213> Mus musculus

<400> 202
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 tctccctttt gttatctcaa gttggacaaa agctgctgtt gtgaacttag tctcagggtg 120
 caatatcctg tctntgcc aagagagtt g 151

<210> 203
 <211> 247
 <212> DNA
 <213> Mus musculus

<400> 203
 agggggaaaag agatggcgat atgctagcga ctggcgacag cggagcgagg gcaccgtgga 60
 accgccgacg ctcaggatcc ccggacaatc ctgtgccttt ggcggtgtgt ggagcgctct 120
 cgacgttaaa gcccagtaaa tagacgaagg acttgtttca atttcaactt cacaaggatc 180
 cttttctaatt cactcctttc ttccctgatt ttttttaatt aaaaaataca gatcaaagta 240
 aaaaaaa 247

<210> 204
 <211> 163
 <212> DNA
 <213> Mus musculus

<400> 204
 ttaatgagca cctgtcccnt tntgccaatg agcctganto tgaggaagag ctgcagcaca 60
 ccaccagaag ttttttgggt catttntctc tatggagtno tgacaaatga agctcaatta 120
 cacaacgtaa ggtgaaccaa tacatgcact gttagcgaag act 163

<210> 205
 <211> 582
 <212> DNA
 <213> Mus musculus

<400> 205
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 agggcatcct cgacaaggaa gaagccaacg ccatcaaacg catctacagc agcctgtgaa 120
 aatggcgggc agcttgagcc ttctgttgt tccagcaaaa acaatatagc ttacaaacta 180
 attcggcggt taaaggggta ccagcccaga agtattagga tgtgctgaat ttatagtagt 240
 taatccctta gaaatgagta aaatagagct ctcttgccat aaatacctta tgaaaagcaa 300
 agctgtagag aagccgaggt ttttctatat agaatcctta ttctctcttg aatttacatt 360
 ttgtaatcag agatgtgctg ctctggaaaa gactctaatt ggttgaaat aagtctgaac 420
 ctactcccca ctgtcctcag cccctgaag ctctgagagg ccctgtctcg gcatgctaga 480
 cacctgagca cctcactgga tgtttgtcat aggatgtcgt ttccactagt cgatctctgt 540
 tgggcacgga aataaaccce cgtctcttca tatccttgaa aa 582

<210> 206
 <211> 173
 <212> DNA
 <213> Mus musculus

<400> 206
 ggaacttctg ttgaagaact tctgtggaagc tctccttggt aataacagaa ggctgaaaca 60
 accccaagat ccattcgaag aagatggaga agcatgttat aatccatcta gatggcgga 120
 tattacatag cagtaccaat agataaatat agctttgtgc cacaaaaaaa aaa 173

<210> 207
 <211> 105
 <212> DNA
 <213> Mus musculus

<400> 207
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 catatncttg nattaaacat gtgaactttg agcagaaaaa aaaaa 105

<210> 208
 <211> 222
 <212> DNA
 <213> Mus musculus

<400> 208
taaggaatgc aatgacaaat gaggaacctc tacctctgtg agctgctaac tacatctaga 60
ctctctctgc tgtctgaatc acagcagggc accttgagaa gatgctccct ctagcttggt 120
aggatgctga ggggaaagag tgaggcaaag cctgggtaat gccatatccc tcaactcact 180
tcatgaaaca tcctaataaa agtatttcta ctaaaaaaaaa aa 222

<210> 209
<211> 237
<212> DNA
<213> Mus musculus

<400> 209
taccctgagc tggcccaatg gagccttaca gaactaatca ggacttggtg agacctctgc 60
actgaacttc ctataagtaa cttccaccac actggtttct actctcagaa ctgccccagt 120
gcttgctggg tagacttttc atctaagaca gtggattttt naaaaagacc ttttttctat 180
tgnttgagaa aatcattgn ttcttggtgaa actgcgtgtc ttccctaaaa ataatat 237

<210> 210
<211> 220
<212> DNA
<213> Mus musculus

<400> 210
tccctgactg ccagcgatag acccagcacc cagngaattc cctgtctacc tcccgtggtg 60
attccataaa tccaccacac cccagagggg gcagcatccc tgggagatgg catcggtgca 120
tggccacag tgtatgggtt gggccctttg atgtatcaaa gcctttgatt taattctggg 180
tggggctgaa taaacaaaa cctgggggca aaaaaaaaaa 220

<210> 211
<211> 257
<212> DNA
<213> Mus musculus

<400> 211
atgccccggt gccaaatggc ganngcgaag gagccgtaca agaangcnca anataggaga 60
ctnttccttc agagactaag ggactggggg aatcacacag aacgngnag aatgtatnta 120
cgntctanaa aagagcctac gctctatcta gctctcogtg ataaacatca ccaaagtcta 180
ctgcatacct ccccaacctt tctctgttta aaaataatta taataataaa gcatttataa 240
tctttcaaaa aaaaaaa 257

<210> 212
<211> 101
<212> DNA
<213> Mus musculus

<400> 212
acacatgtga catcttaagc tgccccaaag gattcacatg ctgngacaat gaatgctgcc 60
cagaaagaaa ggtctgggat tctgcaaata accccttcag g 101

<210> 213
<211> 154
<212> DNA
<213> Mus musculus

<400> 213
gtaacctccc cagcctgaaa cctgtttgct caggtttcan aagagagcat cggggcngga 60
gcttgccgcc ctaccattct gccactccca ctgctgaggc ctgctgcttt gctgntccag 120
agtcaaacac gtggnacact gcaactttac tcca 154

<210> 214
 <211> 181
 <212> DNA
 <213> Mus musculus

<400> 214
 ggtgcaagtg ctagatgctc aagaggacac ataagcagac ccgaaacacg gcttgacttc 60
 catgagcgac aggaccagcc ctacagcgac catggatgtg ccgcgatcac tgcttcttca 120
 cgaataaatt caccctcgaa ctgttaaato aataaagcct actgcagccc aaaaaaaaaa 180
 a 181

<210> 215
 <211> 160
 <212> DNA
 <213> Mus musculus

<400> 215
 agagagtga ttagatgtat cctttttctg tacatgtttc catgggtatgt ggcaaaaatc 60
 acactcagga tgtgaccagg tactgcaggg ttgcagtgtg atgcaagcat ggcagttgtc 120
 catcagccaa taaacttcaa attgacttga aaaaaaaaaa 160

<210> 216
 <211> 163
 <212> DNA
 <213> Mus musculus

<400> 216
 ggtaagtctc gaaattcgat atcaagctga tccggaaccg ttaatataac ttngtataat 60
 gtatgcnata cgaaggatn angnaccncg ggaacctgaa gagccanggg ggggtgcacct 120
 ttctactgga ccagganatg atncccccg aaatcgggtc ccc 163

<210> 217
 <211> 552
 <212> DNA
 <213> Mus musculus

<400> 217
 aagatcctgg agagctctca gactctgctt agngtactca aaagagaagc tgggaacctg 60
 actaaagcca cagcttcaga ccagaagagt agtggaggca aggacagctg acgagtgcct 120
 gtttcanccg nggcctatgg ctgcttagtc ctnaacatgt ctgtcctaaa gcatctttgn 180
 tottngnggc ctcagatgnc ttttatctct ggtgcccaaga ggggcaatnt ntgacctcca 240
 cctgcctana caagaaaagc cctaggacag tccaatggaa gaggtgttcc cagctccgta 300
 ctcacatgtg ctgtggggac cctgagcagc tccatgaggg gcctctctct gaagctcctg 360
 aatccctttg ggctaccagg aatgtcctgg tcctggtctg agtactgtgg gagccccctca 420
 ctttgtctcc ccagccacta gggccccagg ccagacatgt tgaagaaaga atcttgactt 480
 cagaaccaa accttagggc ccatncccat ggcctctggt gtttcaataa aggntgggtt 540
 gcaagaaaaa aa 552

<210> 218
 <211> 211
 <212> DNA
 <213> Mus musculus

<400> 218
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 tttcccagac ttagccaccc acacaaatca tgggctttgt tctcatcaaa ggacatgaag 120
 ttgctgcttg ctgaagatat tctagctgcc ctggagtttc ataatgggaa gctgtgactt 180
 ggggtgtcaat aaagagagtt tcaacacctg c 211

<210> 219
 <211> 200
 <212> DNA
 <213> Mus musculus

<400> 219
 ggaggggaga agatcaattc tgaaagtgc accaagcata tgaaaacanc agtctnctgt 60
 tnagctagta ttggaggaga aaaacaacca acctacgcta ctatgtatac ttgataaatt 120
 tttcatggaa aggggtgaatc agtgaatcga cttcggattt gctggtttaa atatgntgac 180
 tgttgaaacg acagtgaatg 200

<210> 220
 <211> 127
 <212> DNA
 <213> Mus musculus

<400> 220
 ggaaaacctg gagagctgaa gaagaggatt attctaaccc agactgaaca tcacgtcctc 60
 tgacagattg ggtgggcatg tgatttctga caattaaaac attctgtttt caattcaaaa 120
 aaaaaaa 127

<210> 221
 <211> 456
 <212> DNA
 <213> Mus musculus

<400> 221
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 atcattgngg tgctctctn cagaaaatgg tgacanaaat tgaaatcaac cancacatna 120
 ggatcctctg tggcaagacc angataataa tgggggacac tgtnatctgg cactgnggnt 180
 ccttcacgac aacagtggct ggtgggtcct agatttataa catcacttct gctgtcacag 240
 tcaaaccggc catcangaga ctgaaggaaa tttaaagacca ntanaagtgc tactgtttga 300
 gcanccntgg cctgcaatan atganttcac tcctatgaan ggttgnanta nagtgttggt 360
 ngantannnt ncttcaaact ggagtgcgcg gnaccttnan aagaccttan cccccagacc 420
 agcttngcca gccctccaca agccccacc agaacc 456

<210> 222
 <211> 284
 <212> DNA
 <213> Mus musculus

<400> 222
 acccttgact tttagggatt tgctgctaca actgtaataa tgaaatgact ggaattacca 60
 ctttctatcc gactaaagaa aggaatctga aactctgccc tacagtgate tgagcatgag 120
 agcattttatt gaaaaaaatt tttcccatct gagacctcca atttacagaa gagccagaag 180
 cctctatggg ctttcttccc tactgacatc aacacccagc ctattgaaaa aaaacttaaa 240
 actttgggtt aaggtnggaa ggtggngat aatggacaga ccta 284

<210> 223
 <211> 244
 <212> DNA
 <213> Mus musculus

<400> 223
 gagctatgac aaagacgact gcgatgnaca nttccaccca gagaactggn cctacngngn 60
 gntggatcag aacgaaccca ggaaagacnt gttgagntga catgangctc tatagaaang 120
 tccttgentg tgggnccaaa agtgnagtnt natttnacct tgaccgatca atgcgaccng 180
 tcatangctt gcatggaggt nacctgcact cctagcactc ntaangcata ggcagcatat 240

cttg

244

<210> 224
<211> 208
<212> DNA
<213> Mus musculus

<400> 224
ctcccagtc tgtctgccc cctgatgat cagcagtggt ctgagttcat ctgctcaaatt 60
aagatgaacg atcagagaca gccaaactccc gagtotgtgc tgacgtcctc actgttnagtn 120
nttgctgcct aattcnaata aagatnntgt ttngnnnnan natcacattt aaaacaaaga 180
nctaccaccc tatcatcgat gagaagg 208

<210> 225
<211> 257
<212> DNA
<213> Mus musculus

<400> 225
gaactacgct gccatgaagc tggatgaancc ctttacgatg aagaagacat ctgctctgga 60
gaagggggtg caggctgcct cctggcccag gactagctgc tcctccattg ctctggggcc 120
tggatggtctt gcgcatgtcc atggagttct tgggaatcac gttattttca tcttctcttt 180
ctcccctaac ccaacactcc tctggataaa ctcttggtt tctcagtata aagcagacag 240
aaccagaaaa taaaaaa 257

<210> 226
<211> 329
<212> DNA
<213> Mus musculus

<400> 226
acaaccagag gccctnngg ggcgngcac aaatgaaatt caggggtaga ggaaaagaca 60
gaggacacac tcctaagga agaggcaata ggagcagaac ggaggagggg aaagagcaga 120
gcgtgaaaag tcaaggtttc ggggcctttt ttggtaggag gcctgtgata aggttcttga 180
ctgaacaacc tggccttcta gagaaaacct tcccactgag acaactctcc tgcgggaggg 240
tttcagagca gggcctgca gaaaggaaga gatgtcatcc ttgaatggat ctaatcagag 300
aggggtgctgg cctcagaggg gggggggcc 329

<210> 227
<211> 538
<212> DNA
<213> Mus musculus

<400> 227
ggatcctgtg ttggcgaggg tttggcccgc atggagctct tcctgttctt caccactatc 60
ctgcaaaaat tttccctaaa ggctctggtg gagcaaaagg accttgatat caagcctgtt 120
actactgggc ttttcaactt gccgcgcct tacaagctgc gccttggtcc aagataggag 180
tttctccttt taatcattca aatcaaagta attgttctct ttttttctat aaacagtcta 240
ttttgctaag tgctacctag gccagaaaca tcaactcacta acagcacgtg ggcatttggt 300
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cagctgtcta taaactaggc cctaagcaca actgacacca gatccacaag gccctcatca 420
gacgccacct gcaagcagct gcgtgctctt ctgtggcttc agaaatagaa ttatatctg 480
gcactgtttc aatagagaaa ttaatgtacc agcccacaca cattttccta ttctcacg 538

<210> 228
<211> 252
<212> DNA
<213> Mus musculus

<400> 228
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ncanccagga agtgntnncn atntttctcta ctattacgca naagaggaac actatcggcc 120
cnntgacntc cccgacagat tctaagntac cgnnggatgca gccacaacg cctgtatnct 180
caccatcanc cccgtgctcc cggaggatga tgccgattac ttctgttcca tcgcccacac 240
ctttgaaccc ta 252

<210> 229
<211> 207
<212> DNA
<213> Mus musculus

<400> 229
cagcaccaga attaaagtgg gcctcttttc tgggtgacat aattgcactt tgggtctggag 60
gcccagagctg cttccagcag cagtaactcg gtctgttaag gcagcgccctg cacagccctgc 120
acactctgca ctgccttctt tcctgtgtct ccaggccctca atgttccctt tctgcaaaat 180
ggaatctatc tataaagata tctgaaa 207

<210> 230
<211> 419
<212> DNA
<213> Mus musculus

<400> 230
agtctttctat gagggtctggc tcagttttct cccacacgag gaccaggctg gcattgggga 60
cgtcagaggc tgagatgctg cgggaagtgt acctgggtct ctgggtcatc cgcaaacaac 120
taagagagct ggcccgcagg caggagaggc gaagacggcg ccgtatgtgg tctcatccct 180
cccatacttc ccgtcactct gaaccagtgc agggcctcaa acatgatgcc cgaagtcctc 240
tttaggcagg ggagccccag atcctttgaa agccccacc tcaactcttac ggaagattga 300
caggaagggt tcaatggcca tcaggccaga gctactggtg aggagacatt cgaccatact 360
gccacatctc actggagccc caagaccagg cctggggctg aacacacttc ctttctctg 419

<210> 231
<211> 231
<212> DNA
<213> Mus musculus

<400> 231
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accatggaca ggacnanatg ggctnancgt ttncanagg tcttgantcc aattcccagc 120
atcccacatg ggggctnaca accatntgta atggngangc angcactntt nngggngtg 180
cttgaanaca gctacagagt actnatataa ataaaagtaa ataaaagaaa a 231

<210> 232
<211> 365
<212> DNA
<213> Mus musculus

<400> 232
ccaccctcct ccctgcagag agggcccatg tgcttttatgg gaacacagtc ctagaagacc 60
ctgctaagca actccgtggg ggaagtgcct gtcaccacag aggagttcta atggactgtt 120
ctcttcaacc attgcaaagg gtagaagacc ctgctaagca actccatggg ggaagtgcct 180
tcaccacagga ggagttctaa tggactgttc tcttcaacca ttgcaaaggg tcagatgagt 240
atgggcttgg gccctttaat tcacaaaccc agtagaaggc aaagggaat tctgccagag 300
aaccacaaaa catgactgag gaagaggctc agtcagtaaa tgtttgcctt gtgagcttga 360
aaaaa 365

<210> 233

<211> 432
 <212> DNA
 <213> Mus musculus

<400> 233
 ggcatcaaca gagagagaat tcattttacct cacaagcaac tgcaggatga acctatctga 60
 tttgctcttt tcttctatgt gacggcaaaa cagagaggag ataacattca acaaagacag 120
 ccaggaagca cagaaggaca aaagacaagt gcctgggtgg agcagagtca tgagctactt 180
 tcttactttct tagttttctgc cactgactgc caaaatcaca atgcaagctg catctacaag 240
 agtctctctg tccccactgt ggctttgcag tgcaagatca agccaggtag agatccacct 300
 gagacctgga gaaggggcag ccacactgta ggtgggcagg ataggccctc agctaaccac 360
 acccatatta tatctacca gaagttctta ccactgactc atagaccaa ggggtcaact 420
 tcagaatagg at 432

<210> 234
 <211> 180
 <212> DNA
 <213> Mus musculus

<400> 234
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 agaaagttcc aaccagactt catcaatctc tggggtttct aaaaccatct tgacccttag 120
 cagtggctag acacagcatt ttccaagtaa agaaaagttg aaaaacctga aaaaaaaaaa 180

<210> 235
 <211> 109
 <212> DNA
 <213> Mus musculus

<400> 235
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 tgaacatattt tccctcctca ttaaaaatct tgaaatttaa aaaaaaaaaa 109

<210> 236
 <211> 180
 <212> DNA
 <213> Mus musculus

<400> 236
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 caatgctggn acaatgntga aaaanatggc ctccctggctg gatcacagct ntnatatnca 120
 tgctgatgtc tgccatgacc tctgtcctgg aaataaaaag atttttagtaa caaaaaaaaaa 180

<210> 237
 <211> 376
 <212> DNA
 <213> Mus musculus

<400> 237
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 ggaagaactg gcaaagcagg ccatagaccg ggccctggcc gagggcgtgt tgctgaggtc 120
 cgcacagcat ccagctcctt ccgacgtngg nncanttang ncantctgnc ncnnccttct 180
 acnaanangn agggntcttt nggnnnaaga ctntgntttn nttatannct taacttacng 240
 ngngntgntg tengccaaaa cccatgcttg ntggagccac acntgtctaa caccatcaaa 300
 aaaggacgac tatactgccc gtntctttga tatctacaaa caangtcctg aaagaaggca 360
 ttgcccacac cgtggtt 376

<210> 238

<211> 452
 <212> DNA
 <213> Mus musculus

<400> 238
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 ggtgacagag cgcagatgct caagatgcag gaagagaacg acaagttctc ggaggccctc 120
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 agcatggtgg acccttatac cgagaggaat caggtatctt tccagtcagc cgctaaagtg 360
 atttaagagc accaggcgtt ccagccacac tgcacaaaga tttgaatggt ctttatttgg 420
 atacatctca ataaagtctg atgcctctca ct 452

<210> 239
 <211> 303
 <212> DNA
 <213> Mus musculus

<400> 239
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 agccccaca tgatgatgat gcantgttgc tgaagngcct ggagaccttt gacnatctgt 120
 aaagcaggag ggccggagaa ggaggagatt aaatggggga ggggcgggtt caagtttgaa 180
 taccagtagc tagagttata ctgccttgte tttcaagact cattgagaaa ggctgcttcc 240
 aaaagccttc ttgatgttct tagtttctgt tactataaag ttttaagagc aatgaaaaaa 300
 aaa 303

<210> 240
 <211> 303
 <212> DNA
 <213> Mus musculus

<400> 240
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 cttggcccat gttcatctct tgcccaagcc ctccagcaag actgccccac aaccattgtc 180
 cactgccatc ctaccagagc ctggctggat ttgcctgctt tccacotggt aaganggttn 240
 aaaacccttn gcntgtgcaa ggnaaaaaggc ntaaacctcc atgngcctgg ctttttgggt 300
 tgt 303

<210> 241
 <211> 393
 <212> DNA
 <213> Mus musculus

<400> 241
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 cagactcaaa gcccccatc agagtcttcg agaataggcn aacgtgaatn ctatagcttc 120
 ttntaatttt tttttctttt agagactatt ttgattcttt gacagtttca tgcgtgtata 180
 caatgnactg tgannataac acccnattct tncacnnatc tnannnacag gntcctgtgg 240
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 atgccgntat gccacttatg tataaaaatta gtgatgaggc cactagtoog octactggag 360
 tagaaaactt taatcccaga gtaagtaaat tcc 393

<210> 242
 <211> 360
 <212> DNA
 <213> Mus musculus

<400> 242
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nagngaacag actccggcgc taccttggag cctcagtcac cagcccagat cccctggagc 120
ccaccgggga gcagtgtgag ctttaacccctg cttgtgacga gctatcagac cagtatggct 180
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<210> 243
<211> 325
<212> DNA
<213> Mus musculus

<400> 243
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gaaacccagg agaggagtca acagttgtgt ttcaccccac ctcttgatct gattttctca 120
cagaaagcca ggcaggatct gctacttaga agtctttagt cccacatgga gtcctcagag 180
cttcaggggc tcagtgtctaa ccgttcaacc tactcaaggc atttttagtag gaggggctgg 240
ggcttaacgt ggtgtttgat cgtttcactt gcacttgtag aggacctggg ttcactttat 300
cttacaataa atgaatgaat aaata 325

<210> 244
<211> 426
<212> DNA
<213> Mus musculus

<400> 244
gggaagctca ttaggcaccc gaaagttcta aaaggaggct ccttgagatt caggaactaa 60
aggactccca agtctcagga agttcctgga accgaccaga acatacacia agaagactct 120
tctttcttca agattataca gcagtaaaga ttgctgagag actctccaaa ttgagctgcc 180
tggaagggta caaactcatt gaggtgcccc gaagaaagac taagattagt tgagctgccc 240
agaagacata ttcccaatct gtccagctgg cccagggcta tgcaatgagc tcagcttttg 300
tgagttgtta tctatattgg gatggacgtt cagttcagtt accttgaggt aatcatgctc 360
tttcaagtaa tcccctaccc attttcctgg ggagtaaccc aataaatcca ttgtttcacc 420
atgctg 426

<210> 245
<211> 139
<212> DNA
<213> Mus musculus

<400> 245
gggattcaaa cgggagccgg tttggactga ctggatgcct tcctcctcct cccctnctc 60
ccccttctgc ttcagatnta tttattatat agtaagaaca ctgaagcagg ngtaggacac 120
actagacgag ggcaccaga 139

<210> 246
<211> 318
<212> DNA
<213> Mus musculus

<400> 246
gacggctttt atacagtgan atcggaagcg ngtaacanga gacaaatata tgagacgcac 60
tnatgatcta tttnnctnt nancctttgc gacatggatt ntcactgagc aaaaccaana 120
ccaaccagaa tgacgatntn attatatgaa tgtgacggct tctgtctccc cacctncatg 180
tggaacaatg nattcangat acttagngta ccacgtttta atgaccaggt ctcaggataa 240
agagntttac agaaaattta aaatgcctgg naaagactct tgggntcctg ttcccctttc 300
ctcattaact tcgaaagg 318

<210> 247
 <211> 219
 <212> DNA
 <213> Mus musculus

<400> 247
 gcatgctact ggaaaatggt ttggggaggg ctgnaatgac ctgnctggac attgtcgccg 60
 aggtatgata actgttacct gaaggggtct ttcatgggt ggaggctggn nctacctntg 120
 tacttgacct taacnatang angccannac ntgnnnccca nccgactncc nncgggtcnc 180
 agncgggctt gntctccctg accagaaacc cactctctca 219

<210> 248
 <211> 102
 <212> DNA
 <213> Mus musculus

<400> 248
 gacacccagg attcagcana catccaagat atggaggaga cactagatgt gaattcttat 60
 gcagngaatt aaacaatatg ttattacaca agggaaaaaa aa 102

<210> 249
 <211> 131
 <212> DNA
 <213> Mus musculus

<400> 249
 ggtagaaaga atccagaggg taatggggcca tgtctccctc aagagaagan gtctacatta 60
 taaactccct ttccaacccc aacacccact atataatttt aatataataga aaaaaaagct 120
 aaaaaaaaaa a 131

<210> 250
 <211> 189
 <212> DNA
 <213> Mus musculus

<400> 250
 aatcaaatat gcattgatac atatagcata acaaatatat atgatttttt ttcataactca 60
 acaaatgggt aaactgagtc tcacagtagt aaaatgactt atttatgaca cattggtagc 120
 agacactgaa gttnaacctg agcctttcta tactttctca atgacctgct atactgattt 180
 cattcttct 189

<210> 251
 <211> 185
 <212> DNA
 <213> Mus musculus

<400> 251
 ggagcctagg actgctccat ngggcaacac acaaactatn ggcatnatgn ctntaattn 60
 atggcgctn cantgcactn gggatgcttc attgtaaaact ggggtgtgta actgattctt 120
 tattgctcac tctgtcccat ctgagccaag ccagctgttg gcaattaaaa cccacttgca 180
 acctt 185

<210> 252
 <211> 374
 <212> DNA
 <213> Mus musculus

<400> 252

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| tgactgatgc | catcgccctag | atnataaaagc | gcccgtcact | caagcacaga | agtnnaaatg | 60 |
| gacacgttca | ttacttttact | gatgtacgat | cnntcnctga | cgtannacct | caaagaggna | 120 |
| aggcttttng | catatgcana | aacggggaga | aaaaaataat | ctctccgagt | cagaagcctc | 180 |
| gggggagcat | agcaagactt | atcaaagtta | cagtgtctca | tttggaagc | gccaaccgcc | 240 |
| agccctcggg | cgaggtgcag | tggtgcataa | ttaatgnagt | cccagacaca | ggtcactgaa | 300 |
| gtgcccacag | gtgtgtgcct | gggtttcaat | aanggccttt | ccttggaact | ccttttcgga | 360 |
| ttttgagttg | ggcc | | | | | 374 |

<210> 253
 <211> 161
 <212> DNA
 <213> Mus musculus

| | |
|-------------|-------------|
| <400> 253 | |
| agcgttctcta | atcccacctg |
| actgagaaga | gtgaccagcg |
| gacctaaagg | tctctttctgg |
| cctacataga | cgctgtctct |
| cacatgcaaa | aaaaagccca |
| cccctacatg | tctaaacaca |
| aataaaatca | tttataaaca |
| atataaataa | aataaacaaa |
| a | |

<210> 254
 <211> 188
 <212> DNA
 <213> Mus musculus

| | |
|-------------|------------|
| <400> 254 | |
| ggtaagtctc | gaaattcgat |
| atcaagctga | tccggaaccc |
| ttaatatatac | ttcgtataat |
| gtatgctata | cgaagttatt |
| aggtccctca | ggctcatggc |
| aggccaccca | cctctgcctc |
| tggagtgtcg | ctattaaagg |
| caggagcacc | gtcatactca |
| gctcctaagc | ttcattttaa |
| aaaaaaaa | |

<210> 255
 <211> 414
 <212> DNA
 <213> Mus musculus

| | |
|-------------|-------------|
| <400> 255 | |
| ggacaatgaa | ctgccgggat |
| ctgcccagcc | tttgcantgn |
| cctcnatanc | tggnacgggc |
| canaccaacg | ctatttttctg |
| ggnttagggg | atangactac |
| ngngtnaggg | nttagcaaac |
| ggatggaaca | tgtgtggaag |
| atggtacgct | atccaggcca |
| nancntntnc | antgtcagcc |
| cggtcacta | cgcccgtcgc |
| ctctgtcggg | gggcagaggt |
| gcacacagaa | tgactcacgt |
| gtctgccttc | ttcccttatg |
| gacaatgcgc | cggcaactat |
| tctgcagctg | taccagggga |
| gctagcctgc | agttcatcct |
| accagccacc | agagggaagc |
| accctcataa | ctaagtgtgt |
| gaagactcaa | cccattcgg |
| tgacgggtgct | gtaccctgca |
| tagaacaagg | accc |

<210> 256
 <211> 210
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 256 | |
| caggggaaac | accctcttnc |
| tacttacact | ngtctcgccc |
| acccccatt | ctctccttgg |
| tttnttgcc | ctttactgtg |
| gctgtacttc | anatnatnaa |
| agcaagagaa | agaatgtgct |
| gagtgnntc | ttccctgngc |
| cttaagggcc | ctnatcccag |
| cagcccatat | agccagcaaa |
| tggaggactc | ctaacttcag |
| cacaagtggg | |

<210> 257
 <211> 346
 <212> DNA
 <213> Mus musculus

<400> 257
 ggtagcgta tgcctacgcc ctacgctaga gagtgacgat gtcccttgaa cagcaacctc 60
 gccagcacgt ctntagagc acgtggatgg gagngcacga gcagcagcag ntgctaccat 120
 ctatcgtgac atagtgtact cacgaagaat gtgatgtgcc gagctgcgag aacacttcng 180
 cgcttgacc ntteggccct gtccctctaga taaanctgcg tngtccnna aancgatacc 240
 catntgagaa ccattingatt aatagataaa gcaaagacag tntctgaaaa ggaaaagttc 300
 gaagatgngc ccntcacat cacgaacatt tatgaagata gccag 346

<210> 258

<211> 372

<212> DNA

<213> Mus musculus

<400> 258
 ggatgaccgg cttcaactcc ggaggaaata acactactac ctccaacggg tccccctcct 60
 ccaattccgg tcgccagat ttccgaaagt attaaactcag cctggcgctc cttccctggc 120
 cttcagcagc cacaggagga gagctgatgt cgcctgtagg atgagaggac tgcaggatgt 180
 gatgccaggt ccatttgtcc cccccaggac ccatggctct gacaagccct gaggggtggc 240
 ccttccccat ctcttctgat tggaaatctt cttctcccta cccattctc tctattcttt 300
 ggcttctcag tgtctctaca acaaagaata gatgattcaa taaagtttct tgattttctg 360
 caaaaaaaaa aa 372

<210> 259

<211> 373

<212> DNA

<213> Mus musculus

<400> 259
 ggaattaccg tccccagct ccgtggccag cagtgactca ggaagtacag acgaaatcca 60
 ggaagacctg gagcgggagg cggatgtgga gcccatggc agctgatgac ggaggcccga 120
 cgctcctggg ggtcttggtg atgggggtcca gcctcctct cccactgagc cgtgtgggct 180
 ccactcctcg acacagactt ctgtcctccc ttctccggag gccagcggg accgctgctt 240
 ccttccttcc tccaccaccg ncccatggaa tgggtgctgtc gatttttcta ttgtcccccac 300
 ncacaccnca aacgcntact tttngngcgtc catgcagtgc aactgtgctt tctcccttaa 360
 gctgagccac ttt 373

<210> 260

<211> 192

<212> DNA

<213> Mus musculus

<400> 260
 aggagacca tgaagttccc tgttctctga ggaggaaaca totcatgtct cctgatgcct 60
 gctcttcagt ttctgtctag ctgagacacc acaaattgatt gccctcttcg ttttgaattg 120
 ctataaaagc atgcctgggt ctgagtaatt tataataaaa tgcnaatgt atttggtca 180
 tgaaaaaaaa aa 192

<210> 261

<211> 109

<212> DNA

<213> Mus musculus

<400> 261
 tagaaattga actctggaag agagggttcc cagactgcct tttgagaata aaatgggagg 60
 ccanaaccaa agtcttttga ataaagcacc acaactctaa aaaaaaaaa 109

<210> 262

<211> 347

<212> DNA
<213> Mus musculus

<400> 262
aaagatgaag gcagagatca ggagggaaaa gancctttgga ggggaactgc gcctctcctt 60
ccaggagccc ggaggggaga gacagctgct cagcagcagg aagaccctag cagattatgg 120
gatattctct aaggtgaaca ttcaagtgct ggagaccttt cctcctgaga tcctgggtctt 180
tgtgaagtat cctgggtggc agagcaagcc tttcaccatc gacctgatg ataccatctt 240
agatctgaaa gagaagatag aagatgctgg aggcccttgt gcggaggatc aggtactact 300
gttgatgat gaggagttag aagangatga naggccttaa gagcttg 347

<210> 263
<211> 166
<212> DNA
<213> Mus musculus

<400> 263
aaggactgcg gaggcnaach ctttgctgtg ttcaaataca agtcaagggt acaaaaatgc 60
anagcaataa agcctttaac ttgganaagc aaaatcatac tccaaggga ggcgcattgc 120
acatcacctt atnaaaatac ntttgaagcc ttttcaaaaa aaaaaa 166

<210> 264
<211> 375
<212> DNA
<213> Mus musculus

<400> 264
agacctgaac actccagctc ancctcactt ccaagcagtt gcacacggag tccctattca 60
tccaacggct ttctatactg ttttccagaa gtgggaaacc ctgcgcatta cgcgtagtgg 120
gggcgttggg accttaaaac tgacgtgaat ctacnattcc cagtagcaag gcaaaaacacc 180
agaggacgtg aatatgancc taccgtctng ctgcgtcgga gactcaatgc ccagggaactt 240
caagcctgca aggactanga aatggaaagc atcggtctaca agtgccgncc tccccattac 300
ccttctctc cggncccaag gaggcgtgta ctaagtgaag ggactcggct tatagatccc 360
accatttgg cgagc 375

<210> 265
<211> 123
<212> DNA
<213> Mus musculus

<400> 265
aattttgtca gaagcactgg agacttttag cactgagctt natgaactag aacgatccct 60
ggttgaagga tncccgctg tcagcatcct tagtgaggag gagttctatg atgcactgtc 120
agg 123

<210> 266
<211> 192
<212> DNA
<213> Mus musculus

<400> 266
gatggacaac gaaagctgag gaaggagatg tacaagggct ggagaggggc tgtcgtacag 60
ccactggatg aaggaaggct cccgctccca tcctgagctg aaaaggaaaa ggagcatcaa 120
agatccaaag cctcgcgttt ggtttttatt tttattaaaa acctcctgat tttctccact 180
gaaaaaaaaa aa 192

<210> 267
<211> 338

<212> DNA
<213> Mus musculus

<400> 267
aaggccagac ccagacacca caccagcaa tggatacagg acatcacacc cagcaatgga 60
tacaggacat cacacccagc aatggatata ggaccttggg gaaattagga gttgtaagca 120
ggacctaggc ctgcttgatt ctttcccacc taagttaggt tctggagagg gagcccttcc 180
acccttccag acccagcaaa agggcaagat gggagcaaga agcagagggt agacgggcag 240
agctaggaag acagccccc aaagaactgt gggggaaata aatcggatgc ccttgggtgg 300
cagcaacaat aaatcgtaca gcagtgcaca aaaaaaaaa 338

<210> 268
<211> 469
<212> DNA
<213> Mus musculus

<400> 268
ggctccacca gcttctcgga tggagccagc gcccgatatcc atgctatccg actgcaaaga 60
gagtcgtgga cgtgaaaaga aaaggcaca caaggagag agaacctgcg cccgcgatg 120
ggcgtctggc cgtgccgcca cctaccgagt ccgagacgaa gcctcgggtt tgcaggacct 180
tcatacccca gacaccgaac cgagcccga ctgccaacgc cgagcctgcc attgtcttcg 240
gcggttgcga gctcgcgttg cgggcgtggc tgcttctctc ctacgcgcgt aactgcgagg 300
gcggctgaac tgccaatcta gacgccggg aggtgggacg agcacggaaa ccgcgaatca 360
ggaggagggg ggcggggcct atgatattcg cagcgtttgt tgagaggagg gcggatttat 420
ccttagttaa caagtaataa acaaggctct acgcattcatg acccagagt 469

<210> 269
<211> 397
<212> DNA
<213> Mus musculus

<400> 269
ctgccgaaga agagtgaatg agaaaagaac aggccaaagc tgctgcagga aggtgccggc 60
ccaggagacc tccatcatca cccggctgtt tgaaggacag ctacattaca gcatcacatg 120
tttaaagtgt gagagctgca cgcacaagaa cgaagttttc accatcctct cctccccc 180
cccatctgac tatgaatgtt ccctccagga anggagcccc cagctnctga atatanntnc 240
ttggnntga gatgtgnngg gagggngnn cttttgtgaa atnaagcaag aggcantcgn 300
gaggaccacg atttccaagg tgccgaaaat aattgttttt cactttaaaa ggnttgacat 360
ccagggcaca ntnaganga aggttcggca gacattc 397

<210> 270
<211> 266
<212> DNA
<213> Mus musculus

<400> 270
gggaaggaga agaggcggaa gcagccaagg agctgctgct gaatctacag tccacgggcc 60
ttcatctcct ctcagggggc tgccaatgtg tccactctg ccagggaaga actcgacaat 120
acccctcag aggtgtttt gtttagattaa agttggattt gactgtggan ngcgganttg 180
gaaganttg accatgtgac ccagaactan aatgtaatta ctactgttca gtttaattgct 240
ttaattttct gggctggggg gggcgg 266

<210> 271
<211> 358
<212> DNA
<213> Mus musculus

<400> 271

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggtgagggcc | cgactgctca | cctgtgtgga | gggatggat | ttgtccctgt | tagagaaagc | 60 |
| catcttggag | cagaggcgtc | acctgcagaa | gaggcagcag | ccaataggag | acgccagcac | 120 |
| cttgcaaac | cctacacctg | ctcctcaatc | gattcccagt | gacagcctta | gtctggaacc | 180 |
| agagaacagg | gggcagcagg | tgccccttcc | ccaaactctg | gactgagcag | aaagcccacc | 240 |
| caatctggcc | gtagtggccc | atgctgcaat | cccagtgcag | gcagggagag | gcgggaagag | 300 |
| gtggagttta | aagccagtct | gagctacata | acacatatgc | cctctctctc | tcaaagaa | 358 |

<210> 272
 <211> 219
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 272 | | | | | | |
| gattgattgg | accaggacc | ttcccacggc | tacagagggg | ctctagtacc | aagctacatc | 60 |
| tgcaccccaa | tccaccgtta | acagctctac | aaaagaaccc | agctgcctaa | gctctcttca | 120 |
| ggtttcagtt | ctcactctaa | ccctgtggct | ctgctccttg | cctctctgct | cctttcaata | 180 |
| aattcagtc | tagtttgta | atttactgaa | aaaaaaaa | | | 219 |

<210> 273
 <211> 164
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 273 | | | | | | |
| gaacgcctgg | ttccgtttta | tgaagtgcga | ttaccaccnc | cncctgatat | natgtaaggc | 60 |
| agctganaag | cttnccctgg | ntctctggaa | gcncancang | ngctcttaac | catngagccn | 120 |
| tctctccatc | tcaaaccacc | catgtatata | aaatgaaaat | acat | | 164 |

<210> 274
 <211> 349
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 274 | | | | | | |
| ctgaggtatg | ggagttttgc | ctggataaga | cagaagatgg | tggcggatcc | cccggaagtg | 60 |
| atgttacaga | cacttgtgag | cctccatgtg | gatgctggga | gttgaatccg | aattccctgg | 120 |
| aagaggagca | cgtgctgttc | actgctgata | cgtacctgga | gctccacaac | gatgacacac | 180 |
| gagttgtgag | agtgaaggtt | atagctggca | taggcctggc | caagaaagac | atcttggggag | 240 |
| ccaggtaa | aacaatgcat | gagcttgggg | tttaaggaaa | cagtattgct | tantttcttt | 300 |
| cttgaacttt | gattaaatga | aaatctgagt | gatagtagca | aaaaaaaa | | 349 |

<210> 275
 <211> 258
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 275 | | | | | | |
| tcagaaaact | tcctgaactg | gnacgtcatc | actgatatgt | tcaaaaatgc | atttcctttc | 60 |
| attaactggg | acttcttccc | taagnnnaaa | ggactgagan | gngccgatnn | tgatnccnag | 120 |
| cgaccattct | ntntaagacc | tangaccnan | nctgagcccn | ntggancagg | aggcnngcga | 180 |
| aggaantga | agtccatcct | acgacaaaatc | tcccctgcct | cagttccccc | aataaagtgt | 240 |
| tttccactca | aaaaaaaa | | | | | 258 |

<210> 276
 <211> 310
 <212> DNA
 <213> Mus musculus

<400> 276
 ggtgtccgcc gatgccttag aagtggagtt aagagttgtg agctgccgnt ttttggctnt 60
 gggactcgaa ntctgttcac ctngatnnt atcngncncc aagncatata cttgagcccc 120
 agcnacatan agacttcagt gagaaccaga gagatgggtg caggcctgcc aacctgagtt 180
 caatagcaga acccacacag tagcaaaaaga accaactctg acctccccctc tccccctccc 240
 ctctccttcc cctctccagt agtcaactcca gagacaccca aaataaaaaa tttaaatgta 300
 aaaaaaaaaa 310

<210> 277
 <211> 240
 <212> DNA
 <213> Mus musculus

<400> 277
 aagcccaatg taaggttcca gatggccac ttatttggag acaccattta acacggttct 60
 gcttctactt ccatgagaac ctagtgaaga agacacagcc agagctttga tcaaagattc 120
 caaatgcaaa tacaactaac cacccaactg gtcccatcag ccaatgtatc tctttgttac 180
 ctcaaggag attgatttac gctttcatca ataaatcttc atattttcaa agaaaaaaaa 240

<210> 278
 <211> 273
 <212> DNA
 <213> Mus musculus

<400> 278
 tatggacgaa aagatggatg ttttaattaa taatcaagaa gaacaacaag cttccctttc 60
 aaaaccaagc caaggagcag cagaaattct ggcagctagg aaagatggac aaaggctccc 120
 aagccatgat cacagaagaa cccgatggag caccattggc ttgtgacaag aatgtgggtg 180
 caccaaaacc aacgaggaat ccactggagt ccctccatcc atgtcagagt tgctgcgaga 240
 aatgtttgtt gtgtgcccta aagaccaacc gca 273

<210> 279
 <211> 131
 <212> DNA
 <213> Mus musculus

<400> 279
 actttctttaa ccaggattcc ggaagaaatg gagacctttc cntacatntt gtgagcanca 60
 aaaggannag nntggnacgt gtnataaat gacgttgaan taaacaggnt gttttttgtc 120
 aaaaaaaaaa a 131

<210> 280
 <211> 276
 <212> DNA
 <213> Mus musculus

<400> 280
 tgtatagctg acactctgna taacacntgg tagctatctg ctggagaagt cgcgagtgat 60
 cttccagctg cccggtgagc gtggttacca tgtctactac cagatcctct caggggaagaa 120
 gccggagctg cagggtgagg gtcaggatgg gaggtcagat cccaaagaca ctgcctggct 180
 ctgggatggg tgttcacct ctctgcagag gcgtggggca cctccactct cctggnaaca 240
 cacagctggt tgtccacccc tttttcttcc tactgc 276

<210> 281
 <211> 305
 <212> DNA
 <213> Mus musculus

<400> 281
aggcctgggc ctgaantctc anagccccc aa gctgtgcggn tncacgagac tnagntcttc 60
ctanatcaan tgncttggt ncttcatgng caaacgcaaa cgcanaactg ccanagaaga 120
cagtanaacgc tatnctctct gaagctncca agggagtncc tgccctgccag ngccaccaga 180
tgacagtnca ccatggagga tnttntcag atctccgtnc tcatcagtca cctgctgggc 240
agntgcctct tanattctctg tctgcannnc agacagtcgn cantatgcac actttacccc 300
agcag 305

<210> 282
<211> 281
<212> DNA
<213> Mus musculus

<400> 282
cagcgccatc ggccgacccg gcgcgcccc acgcgtgccc ggactgcggc cgcgcctttg 60
cgcgccgctc cacactagcc aaacatgcgc gcacgcacac gggcgagcgt cccttngcgt 120
gcacggaatg cggccgngc ttctngcaca atnnnattct gaccanacac ggacngncnn 180
anncantcca anaaaaggga ctatggccc gaatgcgaca agcgtntctc cgnccgctnn 240
aacctgcggc agntccggcg gngtnacacc gtagagaagc c 281

<210> 283
<211> 140
<212> DNA
<213> Mus musculus

<400> 283
gacccccgt ccaatcgaca acactaaaan tgcggttact aaatgnggca gtgtgatgct 60
caagcaagga gcanactctg gtcaaatttc agaagaaaca tggaatttcc tgcagtctat 120
atatggtggg gggcctgaag 140

<210> 284
<211> 148
<212> DNA
<213> Mus musculus

<400> 284
accctgaggt acgacggcga agctccaaac gagagagacg atgaacacgt cattaacttc 60
tattgtgaaa gctttgggg gaaaaaacat tttttgtcta aatatgaggc taaataaagc 120
cttgatgca caaaccagaa aaaaaaaaa 148

<210> 285
<211> 474
<212> DNA
<213> Mus musculus

<400> 285
gacagcaacc ctgctctgag actgcagccc aggtaccca ttctttcttt ctccatcctt 60
cccttgattc tgctgcagac cctctggtag ctgggcttcc tcagggtcct ttgtcctctc 120
caccacaccc agactgattt gcagcctgtg gtgggagaga actcgccagc ctgtggaaga 180
agaccagcg tgctacacag caaccggaa ccaaccaggc attccgcagc acatcccgtc 240
tgctccagaa gaggtcttag aagtgagggc tgtgacctt cogatcctga gcggctagtt 300
ttcaaacctc ccttgccctt gcttccttcc ggctcaggct gctcctcctt aggactttgt 360
gggtccagtt ttgccttctg ttctgatggt gattagcgtc tcacctncag cgcttcttcc 420
tgtttccag gaccaccag aggctaagga atcaagcatt cctgttgcc ttct 474

<210> 286
<211> 393
<212> DNA

<213> Mus musculus

<400> 286

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaactgaggt | tggctacnca | gagcgatatg | aaaacagaca | aggagcagga | ctcatccatc | 60 |
| aacctgatcc | gntgctccta | ntggggcagc | ggggacagna | gncaagtcac | ttctgaggaa | 120 |
| cagattccct | acacagtgnn | ttccacatna | caganaaata | tantgcagag | ctactnanga | 180 |
| cacagagaaa | gcctggctac | ccaacagccc | cccaagaaac | agnccantgc | caccgnccga | 240 |
| ggcctcagan | agcttanac | acangccgat | ccacatccat | tatcatgcct | taatcgnata | 300 |
| cgagngngct | gaacaanncc | cataccatcn | ttctggactt | ttccatgggg | cactatgtgg | 360 |
| ataatcnggc | tntggttata | ctaaggcag | acc | | | 393 |

<210> 287

<211> 198

<212> DNA

<213> Mus musculus

<400> 287

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agatgatgac | gaacatgagt | ggattgtcag | gacctgccgc | aagggctggt | tgccaatgcc | 60 |
| caaacangaa | gtcctagcca | tgagcacctc | ggcctcagca | ttcaccagg | gaattccttc | 120 |
| tgccactgc | tgccctggga | aactggctgt | agtcctagct | tcgacttaag | tttcagaata | 180 |
| aaggttttct | gcactgaa | | | | | 198 |

<210> 288

<211> 431

<212> DNA

<213> Mus musculus

<400> 288

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| tattttgaggc | ccgacttggc | tgcagtcctgt | ctggagagag | aggctgtgag | cccagctgcc | 60 |
| gcacctatgg | gcagaccttc | gccaacgcca | cagatctgtg | tcactctgct | ttgggtcacg | 120 |
| tcttgagggt | agcanntcct | ggttnccagnc | ntgcctcaa | cgnctncatc | tnctctacag | 180 |
| gagcccgccg | ccgcccngt | gcctgnattt | naaatgttgt | atgcnnntggc | ngcggcagcg | 240 |
| gcancggcna | cagcccngag | ccaatgtttg | gctttcaata | cgtgtccctt | ccctaggcca | 300 |
| gtgagccaac | cagaagtcac | ctacctctct | tcctntatcc | ttccttcccta | aaccaggccc | 360 |
| tnccacctgt | nttccctagaa | atgatctaac | cctcacttat | tttgcttncc | caaaaataaag | 420 |
| ttgccagcct | a | | | | | 431 |

<210> 289

<211> 483

<212> DNA

<213> Mus musculus

<400> 289

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| atatcgca | tgctaagcaa | tccgtctctt | gaggaacatc | gcttcaagtt | ctgaacttcc | 60 |
| tgtaggggtc | tctgcagtg | caagctggcc | tcgcaactgc | tgtagagcta | atgctggcct | 120 |
| agaattcctg | accctcctgc | cttttactta | ctccaaggaa | ctgagaatat | ggacctgaac | 180 |
| ctggattttac | gtttgtctta | tgagtgggtg | aaccgggcac | cagaacatgc | caggcagtg | 240 |
| tccaccactg | agttacgtgc | ttacactagg | cttttaccct | tgcaaagatg | gttgctatgg | 300 |
| acattttatat | atgtgattgg | cttacgtggg | atggtaaaat | agtcttata | tttgagatt | 360 |
| tggttattcg | ttgnttattc | atattaggtc | ttaaccatct | ggagtttatt | ttggtgnaat | 420 |
| ttttttttta | acatttttga | gcttttggnt | ttattatcta | aaataaaagg | tattcattca | 480 |
| tgc | | | | | | 483 |

<210> 290

<211> 413

<212> DNA

<213> Mus musculus

<400> 290
gagagaccta tgcattgctt atatgctggg gacattgact tatctctata ttgggtatcct 60
ggttttttgcc tcattccctt cgcctccatt acccaaagat tgtattgaac agaacttctt 120
agacaacttc cccagcagtg acatcctgtc ctccattgca aggatattcc tgctgttcca 180
gatgatgact gtatatccgc tcttaggcta cttggctcgt gtccagctct tgggccatat 240
cttcggtgac atttatccta gcattttcca tgtgctgatt cttaacttag ttattgtggg 300
agctggagtg accatggcct gtttctaccc aaacatagga gggatcataa ggtattcggg 360
agcagcatgc ggcctggcct tcgtgttcat ataccctctc ctcatctata taa 413

<210> 291
<211> 223
<212> DNA
<213> Mus musculus

<400> 291
ccctgtttga atacccgagn tagatngact gccaagaaga agcggctgtc tctggagcag 60
ggaggagcag agctaggaca caacgttacc cataagcatg aaccacttcc aacgctttcc 120
ccactccagg cagacactgg agccattaag caataactcc ccaaccttcc cctccagatc 180
tggatgcttc taaactactt tctgtctatg atgaaaaaaa aaa 223

<210> 292
<211> 435
<212> DNA
<213> Mus musculus

<400> 292
tcactggcct gtttggaaca gagcagcaag gcaccagccc tgccctcagt actgogaacc 60
acaccagaga gctcggtttt cctaggtgga aactaccaag tcctgttaca caagttaatg 120
ccccatcttc taaatgggca cggtttctcc tggcacctgg aaatagtctc caagtggatg 180
agaaaccaag tcctctgcag gaggccacca tgctagctga cctggcacaa gggactgttg 240
agaacaagac tccagtggaa ggccacttca gcagagcccc tgccattagg cctcctcaag 300
ccattcacac taccacccca caactggaca gacctgacag gaagacccga gagcagccaa 360
gggacatggg gactcctcga gcagatggta ggccttngc tcaagggacc cnagaaaggt 420
tcaacctttg cactg 435

<210> 293
<211> 385
<212> DNA
<213> Mus musculus

<400> 293
gtccttaaag agaattgata aagtgcacac atattgaaga agaaagaggg gttcactcaa 60
cagagccccc agggaggcta gaaaaagctc aagcaagttt gtctttgttt ttctttcttct 120
tctttctgac atataaaacc cactgttggg gttaacctgg gcaaagagct gtactgcaac 180
aaagaagcgc aagcttttca gttgtctctc gaaaacaaga ccaggaaggg gccttcccaa 240
agcatcagtc cgtagaaaaa ttactttctg ctttaaaatg gggttcattc aaagatgacc 300
caagtacaac agtatctaca gaggtcattc ccctgcccc aattttcttt tgtacatcca 360
agaataaaca acattaaaaa aaaaa 385

<210> 294
<211> 299
<212> DNA
<213> Mus musculus

<400> 294
gcttgaagag aaatcgggac ggctgcagac acaggagcct ttgcccacag gatctgaaca 60
actggctaac ggaagcaacc ccacggcagc agaagataaa cacaccagga gtccacaatg 120
agctggagga gactctttca gaaagaaacc aacattccct ggctcaccgg aactcctgat 180

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ggcaaaactg | acctatcaca | atgggtcacct | gtttatccag | aacccttgac | tagcggcttt | 240 |
| ggccttagcg | atactttcat | tctgogtgga | tctgcttttg | tggagtggga | agggtaatg | 299 |

<210> 295
 <211> 421
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 295 | | | | | | |
| gagatttcca | gaaatatnnt | gactcacgag | aacgtaacag | aaaacctgga | gagtccagtg | 60 |
| ctaaagtcca | aactggagga | gctacctgaa | gccccacta | caaattgggtc | aacaaagaca | 120 |
| catctgaaga | tgcgagtgaa | ggcgagaccc | cctggacaga | tcagggggaat | ggtgcataca | 180 |
| gatgagatgt | aagccaatca | cacaagacac | cacacaggct | tccctatcac | cttttatcat | 240 |
| gtggcagggc | acctcaaatg | cttgtcatac | atttgngatt | tcattttcttc | tttgtggtaa | 300 |
| ggtcaaagg | aaacaagtgt | taacttggaa | ataaacttcc | tagctcaaat | tctaangcna | 360 |
| ganatacatt | agngantnca | tttcttcttt | gtggtaaggt | caaagggaaa | caagttttaa | 420 |
| c | | | | | | 421 |

<210> 296
 <211> 246
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 296 | | | | | | |
| gacaagatcc | tgaccatcan | cgagagacct | gganggaggc | acgnnnacn | catcagcttn | 60 |
| nagaccgaag | ggtgacacag | cggcctnanc | atnatgccc | natgacatta | tntttnttgc | 120 |
| aaaggataan | ctgtacccta | cnttccatan | ngagcatgac | annttcntnt | tcgcgtacnc | 180 |
| cattncctttg | ggcagggacc | ttacctgctg | cactgtggag | gagaatactc | ttgttgaccg | 240 |
| gatgct | | | | | | 246 |

<210> 297
 <211> 346
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 297 | | | | | | |
| getctcttcc | tcaggccgng | agacctaccc | ggggaggcct | ttctttcaca | cccagcccag | 60 |
| gagcacgccc | ggcttgatcc | cccagacctcc | agctgctcag | cctgtgcacg | gcaggataga | 120 |
| ctggtcttcc | aagtacccat | cccgccggtg | actgtcccgg | ccacgggccc | tgctcctcag | 180 |
| ctggtctccat | tgtaccgcga | caaccacgag | gcggtgtaaa | acaaccacac | cttacagctg | 240 |
| ttctgaacta | atacatttca | atatttcttt | taaatttttt | ttaaaacatt | gatttgaatg | 300 |
| caataccctc | tttttgnata | aaattatttt | attctaaaaa | aaaaaa | | 346 |

<210> 298
 <211> 206
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 298 | | | | | | |
| tgggtctccg | aggaatctca | ggccgtcagc | taccatcatg | tatacagatg | ttccatgagg | 60 |
| aggtttgctt | ggatcccacg | gcccagcatt | cctgttcagc | ctcattctcc | ctctgatcca | 120 |
| gcacgttttc | tgagacctgt | ctcccagggtg | gcattttctct | tctnttctgn | cttggnntcc | 180 |
| gaccttaag | taaccaagtg | actaat | | | | 206 |

<210> 299
 <211> 404
 <212> DNA
 <213> Mus musculus

<400> 299
atattttgccc cctgcctctg ggaggacgtc ttgatggccg ccaggctgtg cttgtcagat 60
gctgaggaag cactgtttgg ggcccctggt ctcagaagt ttgtcagcct gactttctga 120
gagataccac cagaagaact atgtctacct tgggttttct ccanaaatga atgtctgcgc 180
cccagttcc aggcctgtca ctttcctttg aacatccgtc tgcatactac atccctgccc 240
ctctgcccac atgccgctcc ttctgtttta gcttggatag caggctggct ctggccatca 300
gaaccattgc tgaccttggc tgtcttcacc tgctgggcag acacaaagt aggccaacat 360
ctggaccacag aggagaaatt agaggccatt tgtggaagca ctca 404

<210> 300
<211> 232
<212> DNA
<213> Mus musculus

<400> 300
ggccaaggaa tatgccatga aagccctcag cctagctgag acatacgtca gtgaggagga 60
acaaagggtt attcaagagt tgctgagtgt catctcagcc gaggagaagc agccctagag 120
agcgccctgc togtgtgtgc tgccaggggt gggggagggg gagtgccatt atgtctgactg 180
ggcatcctct gtaactgtttg tgaagtcnat agtaaaatcc tgtttcaatt tt 232

<210> 301
<211> 477
<212> DNA
<213> Mus musculus

<400> 301
agacaaaacta tgctatatgt tctcttctgc gcactgaaag cacttntgac agacagcctt 60
tgagcagagc tccagctccc tgcccacaga tacctaaact gactcgggtga cattccttcc 120
tcattaatat ccttccatca attgggaaaa gaagtcagca ggatgaaact tcgaaacttt 180
tctagtnttt tctacctctt tctctcccc tttggaaagc ctgctggaat ttcgactggg 240
atgttttcca ggctcctggc tgtagagacc tcagctcgct aaaaccacag ttgttttgtt 300
gctgccgccc acaggaggct acaatgatga aaaccacaga tggcctgctt tcattccctc 360
acccctgagg aatccngaga ccagcagaag gatgtgccag ggggcacatc tagcttccca 420
accttntggc ttcatTTTTA aggagaagat gaaanancct ggtaaattgct tcttggc 477

<210> 302
<211> 196
<212> DNA
<213> Mus musculus

<400> 302
ggtgacttag agcctataga agatggattc aatcttcata agcatgaatg ttggccagcc 60
ccagaaattt tcttctgaat ccacagagca tgtgcttggc tacttccttg cccagaata 120
gcattcttag aagacaaaaga ttacataatg tgggtgacaat gtctaaaata aactatcctc 180
agcatcaaaa aaaaaa 196

<210> 303
<211> 339
<212> DNA
<213> Mus musculus

<400> 303
cttctgccag ctgagcncgc tgggaatggc angaattntc tnnatcact cgcctttgnt 60
acagntctcc ggggctttgg ggcccttttg cttctgccct tgactctccc tggccttgac 120
tgnggctgct ctgcattcct gggcagggtt ggagcttcta attgggagct ggcacctgag 180
gcctatctgc naactggcca cagactagct ttgtccccgg ctgcctctga ctctccaggg 240
atagatcatt ctctgaaaac tcaactctga ggatcogtct tccaagatcc gtctccaaga 300
tccggaacct gaagccagaa tgtctggcag ggctaaact 339

<210> 304
 <211> 267
 <212> DNA
 <213> Mus musculus

<400> 304
 gagatgcctg ccttcctgtg ccgaggacac agagataaaa attcacgaaa gaactcactc 60
 cccactcctg ccttgtaaat ttcaccaagg acaccgga gagaagaact ctttccaact 120
 cctcccaact ctttcaactc ttcagctagc tgttaaaagc cccctactgt caccgcttgg 180
 gggtcgaact cccctgccct gcatggcgga gggacttcgt cctcagctag ctgataataa 240
 aacctcttgc agtttgaaaa aaaaaa 267

<210> 305
 <211> 385
 <212> DNA
 <213> Mus musculus

<400> 305
 gtttccttca atgcctgtat ttcttgctc catggcttct caggaactct catgcacaac 60
 ctaggnogac taccactact acngttacca ccaacancac taccacgatt acaagcggnt 120
 tcaacctgna tgtgagacca cctgcatcac cttggctgaa taacactggc ttgatcaatg 180
 tggcttctat gccttctacc atgactgtga actcaatagt aactcctgtg atgacatatg 240
 gacctctgga gagtatggcn aacaattggn actatcagct acaagaacnn gnntaact 300
 atttttatca ggccaaccaa ttcaaactt tgggaaccan gccctgattt gantctngna 360
 atgagatttg ctctttagt atcca 385

<210> 306
 <211> 274
 <212> DNA
 <213> Mus musculus

<400> 306
 gattaatgtg cagctgtcct cctgggtgga agagattcct ctgagcttgg atgtgtactc 60
 acaaagggac attgaccaag aagctcttca acaaatccat ttatataagg ttctctagca 120
 ccaaagcaac ctagtgtac cttaacccat atgctttgta tattcccttg caaacatgac 180
 cgtgtgccag taactagtct tgtgtgacta tgcatatgca gtagtcgtat gtggatataa 240
 ataaactatg ataagataac taaaatataa aaaa 274

<210> 307
 <211> 287
 <212> DNA
 <213> Mus musculus

<400> 307
 ctggagaact atgaggctgc angaatgtaa caacgtcccc agagttgctg ngaccttgtc 60
 cctccatcta ccggacaatg aagtacagt gtccaggcta gccaccttc ctgggctgtc 120
 tcatggggac ttgatgang caccagatc ccagcaatca agataacngt tcaaggactt 180
 tgggaataga gacaaaagca ttaagaagtt caaggatagc cttggctaca tgtttaaccg 240
 gggctacttg ggactctgcc tcaaacaaaa caacaaaaca aaacaaa 287

<210> 308
 <211> 299
 <212> DNA
 <213> Mus musculus

<400> 308
 atgctgtcct cataaatttn atggaanaggc cnaggaggaa ctacttaaca tcttctggct 60
 gacaagagct nacggtgatg anaatgcttt ttctgtgatc cactacgtcc tacaaacgtg 120

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agattnanag | ctagcaagag | ggctgacaac | ctgagttcaa | gccctgggac | tcacatggng | 180 |
| gaaagagaga | gcgaacttnt | ggnacctatc | ttntgagatc | ccccgtgcat | gctgagacac | 240 |
| agtcctctcc | cctttcccca | gataatantt | gagatattaa | aaatttaaaa | aagcaaaaaa | 299 |

<210> 309
 <211> 146
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 309 | | | | | | 60 |
| gggccctgtg | atgcatatct | tctttattac | cttcagttga | agatgtctgc | aaacccttgg | 120 |
| aatgcccct | aagttttaga | agtctgctgt | tatctcagaa | gcaattaagc | agtcccatta | 146 |
| taaaaggtct | ttgcacaaaa | aaaaaa | | | | |

<210> 310
 <211> 512
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 310 | | | | | | 60 |
| tttgaagacc | tttctaactc | cagcggggcc | tgtgactaac | cagtgcagg | caaatacaaac | 120 |
| cctcaaacaa | gtcatagaga | gatttttaacc | gaaaaggtag | cgagaagggt | gctctgagga | 180 |
| gcagctaagg | cagctctacc | agcngactct | caaccaaagt | gatggccctc | cggggacaca | 240 |
| gtgcggctga | ctgcattcga | atttacttga | cagtagccag | gaagtggcgg | ttctttggcg | 300 |
| ccaagttggt | ccttgcaaaa | ccaatagcac | catcatcact | tggaataaat | tgcgtgtggc | 360 |
| tggctgtcca | tgaaaatggg | ttgagcatcc | tagaatacac | ctncatgaga | ttagtgacca | 420 |
| gctatatgta | caaaggtctg | atgacctttg | ggggctatca | agaggatttc | atggtagtgc | 480 |
| ttagtacaca | gtcaaaagac | cggccaacag | agaagttact | ttttgcgatg | gcnnaacaca | 512 |
| atgatttttg | anatcacctt | tctgatcgcc | ag | | | |

<210> 311
 <211> 456
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 311 | | | | | | 60 |
| gtccttggat | tacactggct | gctctcctga | ggtaaaactg | cggagtctat | aattaaatag | 120 |
| aaaaaagcat | gtcagcaagt | tcacaaggtc | aatgctacag | tacaagatgg | agtcaggatc | 180 |
| acagaatgac | atcactacta | tcactcttcat | ctcatgaagt | atgaacaaat | cagtagagac | 240 |
| cctattgtca | aagtccagtt | ttgacatgac | tcggctctgaa | gtctgaagta | ggtgtgggat | 300 |
| cagcagaaca | tggaacacagg | aatctttcttg | atagttcagt | caagttctct | cttctttatt | 360 |
| tccccccaac | ccccagctta | tgttcctcag | caaactctca | attacagtgt | ggctatattc | 420 |
| tatttttctt | taagtgaatg | attacaatga | atttcctaata | acctttatgt | gattaaatgt | 456 |
| tttacatatt | acagggtgaaa | aaatttcctaa | gaaccc | | | |

<210> 312
 <211> 252
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 312 | | | | | | 60 |
| agctctcagc | ctgacctgaa | catctgaggt | tgctctgacc | cgatgccgtc | tgccccctctg | 120 |
| atactcagct | tctggatcat | gaacctcgaa | actttttttt | agagggctgc | cccaccact | 180 |
| gctctctctc | ctccccgcct | cacaccaccc | tcttccccctc | tccatagtga | gttagaagaa | 240 |
| tctaaagga | ttggctgcgt | tctctgatto | tgtggaactt | cttataaaat | cattgctcta | 252 |
| caagaaaaaa | aa | | | | | |

<210> 313

<211> 192
 <212> DNA
 <213> Mus musculus

<400> 313
 gttgaagatg gctccagac cctggacagc aaggaaacag caactctcct acatctggac 60
 caacatctcc atgcccattt tcttaggttt cccagagaca cagcgctcca aagtcagcag 120
 gaaacaacta aagatcacta tgcccctaatt cctgcttcac catcatctct agtttttctt 180
 ttttttttta aa 192

<210> 314
 <211> 318
 <212> DNA
 <213> Mus musculus

<400> 314
 gacagcgcct gactgagatg gaatgtttctc aggaccagct gagggatagc ctccaaagcc 60
 tgcaacttct ttcaaaaaaca ccaggatctc ggagccagcc cctgcctctc aaagcaccat 120
 gtgtcaatgg agctgatctg tcaatgggca cttgagcatt tcacccact ccatatatgg 180
 tctggaagcc aagagagcca ctacagagga ttttctgact gcctcagccc ttcatggcct 240
 tcagtggggg acagagtggg aggtgtcaat cactctggtg actgtgaggt tgcccagtaa 300
 atccatttca gaaaatca 318

<210> 315
 <211> 169
 <212> DNA
 <213> Mus musculus

<400> 315
 aggacggagt tgtttcgatc tcttttcggc cagctcaacc ctctgatgc agaccgtggg 60
 aagtgcacagt agcatcctct caggcccgac ctccagcacag gacccacctg ctgcctccaa 120
 taaaatgatc aaaaactaca ataaaccttt ttttttttaa aaaaaaaaaa 169

<210> 316
 <211> 446
 <212> DNA
 <213> Mus musculus

<400> 316
 gtggtggaag accaaagaag agacgacctg ggcccatcca cctgcctcac agcctgctgg 60
 actgctctgt gttgctgctg cctctgggac atgctcacct gatcacctga tgagccagc 120
 tcttcgctt ggccgctctg tgccacctcc gataagtgtg cctggcccca tctcttctga 180
 ttgtataaaa gtggtagct ctgctcagac acctctactt tctgtcctat ggagttag 240
 attagtggag gttactgcta tttagttcag tgacttgatc tttttaatgt tcaaaactca 300
 tttcttactg atctttaaaa aatgtgctaa ataatttact tttttggcca aaggcttagt 360
 tatgaaatat atatttataa tggttaaatt atnccctcaa aggnatngca ttatgggacc 420
 cactattaaa tctctctgtc atacc 446

<210> 317
 <211> 213
 <212> DNA
 <213> Mus musculus

<400> 317
 ggagtgggtt aagatgagga gagccctttt ccgcagacac agcaggctga tgatgttctg 60
 cgaactgcc aagattacag agaacaactc tccctgaaga ttttgagca gcacttgagt 120
 gcctccctg tcgtggagcc atgatggcca ggacaacctt tacttctcta taattatttc 180
 aacaataaag atgagcattc tgaaaaaaaa aaa 213

<210> 318
 <211> 188
 <212> DNA
 <213> Mus musculus

<400> 318
 aggacctatg aaaagctgga gatggcggca tgcattctgga atccctgcac tctgttcatg 60
 ggccgagaag tatagaaagg aaaatgcccc aggaagcttt acatgagaat gtaacacagc 120
 ggcagaaatc acaagatact ttgcctcaaa tgagataaaa gatgagaact aactcctaaa 180
 aaaaaaaa 188

<210> 319
 <211> 182
 <212> DNA
 <213> Mus musculus

<400> 319
 aatgtgctcc caggtggaac cnetgatggc taagcttttag anagctgaca ggggnggctn 60
 tggctnantg gcacatccca tgccttcatgg gctanattca ggggcngatc acacttggtta 120
 cgataagagc ttacatagnt gtcttcgaaa gnnetggntg ggatggcact cgggtgtggtc 180
 gg 182

<210> 320
 <211> 173
 <212> DNA
 <213> Mus musculus

<400> 320
 atgacagctg gaggaccag ngtgtgatgc tncatctgac tgccctnact ttctcccaca 60
 tggcccnnga acttttgtgc ccaactttct tcccttctct gctccctcct cccacacaca 120
 tctgnctgcc acctcccaca tgacacctca aataaatccc ctttgggttt ttg 173

<210> 321
 <211> 420
 <212> DNA
 <213> Mus musculus

<400> 321
 agatgccgct ggagctgaac actcctcnca cactgatana tgangacgnc gtgnntgang 60
 aggacnntca tnatgnntat gtaannatan nantntatn tatacnnaac atgccgtatc 120
 tgatangaga atctataaca cctccatcat gacaaagaaa tggatgaagaa gtccctcagaa 180
 ctgcaggaag gatttgttga gactgtgagc acattcctct tctccaaaacc tctcctggaa 240
 tgtcctagaa ggcccaggaa ttcccccaaa gcactgggtc ttcctatggt caaacgtcag 300
 caacctccac caaacatgat ggaggaaagc gtgaatgttg tcactatgac ggaagttcag 360
 ctttagtccc agttaacaaa tattggcaat aaatcaaaac aggaaaaacc ctaaaaaaaa 420

<210> 322
 <211> 207
 <212> DNA
 <213> Mus musculus

<400> 322
 acattggatc tectacaatg atgaccatgc tgccanntgn tncgtgctga gagcgggctn 60
 agtgacataa aggaccagtg actgncacat ntgcatactc cctgccccgn ctgtcagnca 120
 gtccgttnca tgggaatggg nccgctgggg tgggtgcact cctaaccaga atggcctcag 180
 acaancctgg cttcttttac ccgcttg 207

<210> 323

<211> 305
 <212> DNA
 <213> Mus musculus

<400> 323
 aggagataat ttaacccttg aaaacagaca ctgtgccaaa tccacagccc aatagcggga 60
 ccgccccctc cacagaagag gtccagccag aggcctcctg ggagccaccg gaggagcctc 120
 ctgaactgaa gagaccagc cttgaggaac gtgaaggaga tgcccaaaac ctggccccctg 180
 atgactcttc caagactgtc tgagcctgct atgcacctgc gtgcagagga ggcaaggcca 240
 aagctcgaag gctggtgatg gtggccaaat aaacactcat gaattggttc acatagaaaa 300
 aaaaa 305

<210> 324
 <211> 128
 <212> DNA
 <213> Mus musculus

<400> 324
 tccccctccc tggcctgtgc tccctgcagc gtganctgct ccatcctttt caacgagcga 60
 tncccataca atgacaagac attcctcaac ctcatggacc ttttaatan aaatttttac 120
 caactgaa 128

<210> 325
 <211> 165
 <212> DNA
 <213> Mus musculus

<400> 325
 ttaagatttc ccagggccag tgagatggct gaacggccag aagagcttgc tgccaggcct 60
 ggccacctga gtttgatata tgcaactcac atcgtggaac aagaggatca acctgtgagt 120
 ggtcttctgg ctccacgtgg gcatgcacca atacaaataa aaaaa 165

<210> 326
 <211> 256
 <212> DNA
 <213> Mus musculus

<400> 326
 gatccccaga gtaacagctt gtccttcctc aaggctcttt gcttaggaag aaagcaaaga 60
 atagaacctg caagatggcg tattcccttc caatcctggc ggcttgagtt tgatcccaag 120
 atccacacgg tagaggata gaactgactc ctgcatgttg gcctctgacg tccatacata 180
 ttccttagca tgtgtgtatc tctcctctct cgaaaaataa taagaaaatg caataaaata 240
 gagaaagaga gagaga 256

<210> 327
 <211> 279
 <212> DNA
 <213> Mus musculus

<400> 327
 accacggaag cactgaagca ctncacttga anatagnctc anaccatgc cananngnct 60
 tgaagcatcn nttcngnggn anactcagct gnggggtgac aggatgcnac taccagccc 120
 tggctggggc cgtctctant gcggtcangg atctattggc tagaagagtg atgactnnat 180
 ctacaggaca antctagcaa cactgnctaa natattctac tgaattncaa agtgctctga 240
 aattttaaat aaaactttga taatcctcaa aaaaaaaaaa 279

<210> 328
 <211> 492

<212> DNA
<213> Mus musculus

<400> 328
ggcagccctg aagctgttga agacagtgcg gcanctnccg cttgggagtt tggnttgcca 60
gactgctctg ctcttccacc tnaacagccc agggggccagc tgtggaccct ggcacatgtc 120
atganagggg cagttttgct aagcctatgt ctacaacagt tatttggggg tgtggtcacc 180
actgncacat tcaactgtgat gangcactgt agccagctag cacccaagag ccctgcaggc 240
tacacattac agcttcctgg ccactctgga actgttgggc aagctgntcc caggtaccct 300
agccggcgtg ctggccgaca gcctaggccc acatctctgc ttgctgtct tccttgact 360
ctcagccctg cctgttctgg atctccgcct ggcaccagc aacctgacct gagctggatg 420
ttgggttagg ctgtctataa agccaataaa gctatgtatg gcctggatgt ctgggacaca 480
ggaaatgcag ct 492

<210> 329
<211> 178
<212> DNA
<213> Mus musculus

<400> 329
gcttaatgag gagctccacc ggcgctcttc agtggttaggt aaaacagcaa ttattacact 60
ttgtgtgtga attttcatct ttgtgctttc taggtgatat gctgagttaa tgtttctgtt 120
acttggaaaca gtccagtacc cttcagaata aataaaaactt acttatgtga taaaactt 178

<210> 330
<211> 107
<212> DNA
<213> Mus musculus

<400> 330
gagacctatg agcgcgtaag caagaggctg gcttgagcta ccannngctgg gcttggaggg 60
gctacgaccc accaataaaa gtgtttcatg gatcaccaaa aaaaaaa 107

<210> 331
<211> 415
<212> DNA
<213> Mus musculus

<400> 331
ggttttacct gctgccactc agagcaatga cccggatgcc atccaggaca tacctggctt 60
cctgattcta cttggagttg gacatctgac actaaccagt tgcactggac aagaccctct 120
ctcagagAAC tcaaaaacata cctcggggacg tcatttcattt attcaatcat gccttctgta 180
atacggctat cagaagaagg aaaatgaaga caagaaaaac aactgtgatg tgggcagcag 240
gtacctgggg gtggagggtc ttattgcctc tcagggggtg ctgcctgaga caaagatcct 300
cagtcaaggc acagacctt gaaatacagc tagaaaagtg ttctgaattg ggctgncttt 360
tttaaaaaga caaattacaa cgtcaataaa ggaaataagt ggttaaaaaa aaaaa 415

<210> 332
<211> 413
<212> DNA
<213> Mus musculus

<400> 332
gagagtagca ccgtcctgtt caggactcct gcctcagtag ctccagactt catgttggga 60
agatatactg ggcacctgga ttccacagat tggaaatata agtctgacaa cactcaagag 120
caggagtgtg gttatttctg ctgagccttg caaaagtaaa catactacct tcaacttaga 180
ctccttggtt agtggactat gaaaagccac atgtacaaac cattactatc catgtgacat 240
ctcaagatct cttgctggac atatatgaaa tcctctagga ttctacgtac ccaggtacaa 300

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgtcagttct | cttgagctgt | gcttctctaa | gctgcagagc | catgttagtt | gccatggata | 360 |
| cactgcgata | tctgtcttag | gactaatttc | acacagacca | agatgccagc | tga | 413 |

<210> 333
 <211> 239
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 333 | | | | | | |
| cctcgcacac | tctcattata | gcagatcccg | atactagaat | ngcctnaaaa | ngcacaaaat | 60 |
| nganatggcc | aatngacagg | ataanncana | nggaactggg | tcatatgatc | aactgggcaa | 120 |
| agagagtgcc | aggtaaggat | gctaaactca | acttctatgt | taagagtga | taactttcaa | 180 |
| cagtcagctg | tgggtactgtg | gggggaaagt | agtagtgtgc | tatgggatta | gggagatgg | 239 |

<210> 334
 <211> 422
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 334 | | | | | | |
| ctctttgtgt | tcaagtctn | tctgogccac | ccaccggaga | atgggaagcc | gaacatactg | 60 |
| aactgggtacg | taacacantt | ccaccognot | cacattgnaa | tccaaatgct | gaagaacggg | 120 |
| aaaaaaattc | ctaaagtaga | gatgtcagat | atgtccttca | gcaaggactg | gtctttctat | 180 |
| atcctggctc | acactgaatt | cacccccact | gagactgata | catacgctg | cagagttaag | 240 |
| catgacagta | tggccgagcc | caagaccgtc | tactgggato | gagacatgtg | atcaagcatc | 300 |
| atgatgctct | gaagattcat | ttgaacctgc | ttaattacaa | atccagnttc | taatatgcta | 360 |
| tacaatttat | gcacgcagaa | agaaatagca | atgtacacat | caccttcttt | atatcttact | 420 |
| tt | | | | | | 422 |

<210> 335
 <211> 311
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 335 | | | | | | |
| ctaaggttgt | gggtggcaga | gagaatgnca | ctcgataacc | tccctcccto | tcctggaagt | 60 |
| ggtgaccaga | cattgccgga | tcatgcgcct | ttctaagcct | gtcctagctt | gccagccaca | 120 |
| gagtacagaa | gcacacgctc | atcatcacag | ctgcaactct | gcatgacaga | gccaccagcc | 180 |
| agagacagtg | aagagctggg | tttgaagaca | gtcataccca | tgttcatgca | gatgtggctg | 240 |
| ccttggcatg | aattagagaa | cagtcttgta | cataaatgtt | ttacactaaa | gttcgtagat | 300 |
| gaagcagaaa | a | | | | | 311 |

<210> 336
 <211> 140
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 336 | | | | | | |
| gtcgtattac | caggacatgt | atgtggccaa | gcaaaacaga | atcttcaaca | gaagagatgt | 60 |
| gtgagaatac | aaatatattc | aaaatatgtt | caaaaacagt | tgaaataaat | tctacaatgt | 120 |
| caggacgatt | aaaaaaaaa | | | | | 140 |

<210> 337
 <211> 406
 <212> DNA
 <213> Mus musculus

<400> 337

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| ttgcaccaca | tttatgatct | gatgncgaac | acngantatc | anccggtcatc | accatcatgt | 60 |
| ctataatcct | gtgggtacgta | agtgagacct | gcctgaactg | tacccactct | caggactctt | 120 |
| gtctacagac | acgcttcana | ccaaagctga | aacctctgtc | atcgagata | caaggattct | 180 |
| cccttgtgat | ggatggcagc | cacggagacg | taacagtgtt | taattaatgg | aaaccagaa | 240 |
| aaggaggaaa | tgatcatgga | ggctgtttga | gatctaggga | tcccacaagg | gaatcccaca | 300 |
| ggctctgcct | tagntgtcct | gtcccttgtc | ccttccctca | gtagattatc | tgtggtaaat | 360 |
| agccaggaag | aaactgacaa | gnaattctac | tgtgctcgtg | gagaca | | 406 |

<210> 338

<211> 387

<212> DNA

<213> Mus musculus

<400> 338

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcaatggac | tccaggaagc | tgctgctcca | ccgcccata | tgctgccttc | tgtgcatccg | 60 |
| tcctcatccc | aggcctgctc | ctccacctgg | ctcagcgagg | cagagatgat | cgcccttgct | 120 |
| ggctctgtgc | agatgagcca | gggagagcag | acacccaact | gcgtggcaag | ctctctgcct | 180 |
| tccaccagct | gccagaccc | tgtctctgtc | tctgaagacc | caggctccag | tggtgaccag | 240 |
| agctgttctg | ggactgacac | atgaaccaca | tagtacccca | ataaccacag | tccatagtgt | 300 |
| accctgcccc | ccactcctcc | acgggtgctt | tcttctcccc | caagctgttt | tgttgacaat | 360 |
| aaatcagagt | ttgcaaacca | aaaaaaa | | | | 387 |

<210> 339

<211> 444

<212> DNA

<213> Mus musculus

<400> 339

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggatctcaca | gttctcagga | cagtgggtga | cccgctnagt | gttattaact | catttcacag | 60 |
| agganggaan | gaanncanga | cttaaganan | naagaggagg | cccaaggcca | gggggcagac | 120 |
| ctaggagaca | gaanatgttc | aaaccagccc | taggggttaa | aggtgtgggc | gatggaacag | 180 |
| aagtaatcgg | catcatcctc | cgggagcacg | gggctgatgg | tgaggataca | ggcgttgggg | 240 |
| gctgcatcca | cggtagctga | naatctgtcg | gggatgtcag | cgggcccata | gtgttcctct | 300 |
| tctgcgtaat | agtagagaag | atggggagca | cttctctggc | gctgctggta | ccacgacacc | 360 |
| ccaatatctc | cagcggtggc | atgctgggaa | ttgatgggtg | anctgagatg | agcgtcttgg | 420 |
| cctgggaaga | ctgagaacgc | gtta | | | | 444 |

<210> 340

<211> 101

<212> DNA

<213> Mus musculus

<400> 340

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaacctgtct | ctctcctggc | tatgagacgg | aatgttagaa | ttctacacat | ctacggtgta | 60 |
| ccaataaaa | gcttatgtcc | attccacca | taaaaaaaaa | a | | 101 |

<210> 341

<211> 385

<212> DNA

<213> Mus musculus

<400> 341

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gaaaagaaat | gtaaancnaa | gccatacatc | aggctnctgg | tangaagatg | gcacnngcan | 60 |
| taagctgacg | gtgatctgta | ggaatcatct | tgtggcaagg | gcactagggc | tgagtcctag | 120 |
| tgagtgggtc | tccatcctcg | agcatgccag | ggggccgggg | agagtggcct | tgagttttac | 180 |
| agggtctagga | ggccaaacag | agtctgcaag | caaaacccat | gagcccttga | ccctgctcct | 240 |
| ccggacactt | tgtaccagcc | cctttgtcct | ccgaccggtt | aagctttctt | ttgcacttga | 300 |
| aaggagaccc | actgatattt | tcccacgaga | accgtcccgg | ctgcagcagt | tccagtgtgg | 360 |

agagctccct ctgctgacca gagtg

385

<210> 342

<211> 140

<212> DNA

<213> Mus musculus

<400> 342

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| atacttgat | tatcatattc | ntnnnttat | actgggaact | gccnnnaaag | ggatgtnctt | 60 |
| tatgtgacaa | acttccagca | aacttgtatt | ttcatattcc | ttatatattca | ctgggaactg | 120 |
| ccaataaagt | ttgtacttca | | | | | 140 |

<210> 343

<211> 439

<212> DNA

<213> Mus musculus

<400> 343

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| cccgttactt | ttggaccatc | atcccancnn | gaaggatgga | tgatccgctc | ttgcctgaan | 60 |
| cttgacgcct | cacagagtct | acaggtcaga | atatgagtag | aaanaggctg | ngtgtgaaa | 120 |
| nataacaaca | taaaaacaga | attctaggcc | tttaggccca | ggcttgga | tgngccttt | 180 |
| gtaaaaggtat | gctaatacata | aaacagatag | caacatttct | ccaccacccc | gcttcctggg | 240 |
| ttcaaagagn | gctcattcaa | agaaagtcac | ccagaacctg | caatgcaa | gtgctattgt | 300 |
| tagggactct | taaaagctgt | cttgagagtt | aacaattacc | aggtnattcc | ttngactct | 360 |
| tgtaacttta | cacttccttg | ngaactotaa | ctggtnatct | ttggtatntt | ccaactngc | 420 |
| cctttccact | tcottaaac | | | | | 439 |

<210> 344

<211> 299

<212> DNA

<213> Mus musculus

<400> 344

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| ggttccagag | acacccacac | tgagcatgga | ggcctcccga | gatgaagagg | aaactgaact | 60 |
| ttaccggcgc | ttaggtggcc | gcagtggaga | ggcagagggtg | tgagttgctg | nctgggggct | 120 |
| cccagggtc | ctgccacac | cctgacttct | tctaaggtoa | ctcaccgtcg | tcgtctgacc | 180 |
| ccatcagggt | ctgctgtcgg | aggcggtgac | tgtagtgag | gaacagaaca | ggagagaaga | 240 |
| aaatgagtg | caaaggacag | cccagagtca | ataaataaac | agttagtaaa | taaaaaaaa | 299 |

<210> 345

<211> 229

<212> DNA

<213> Mus musculus

<400> 345

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agctctctaa | ctgatgggga | ggtatggctc | ttctggacac | agcatccact | actggaatgc | 60 |
| agaatggcca | gcatacagc | gaaactgatt | gtcctggccc | tgaaacccca | tcacccatct | 120 |
| atcaagaatt | aagtgttggt | ctgggggtat | caggcacgtg | atagaacact | tgctctgcat | 180 |
| gtgtggggcc | ctgaaagtaa | agtgcagtga | taatgcttaa | aaaaaaaa | | 229 |

<210> 346

<211> 301

<212> DNA

<213> Mus musculus

<400> 346

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| ataaaactaa | agctaattggc | tttatgtgat | ttacccaagg | tgaaattggt | tgttgaaaca | 60 |
| cgggtccaaga | atggagtcac | atgaggagaa | ttctgagtgc | ttacttgtga | gaaaactcca | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agaaaacggg | acaagagtct | tgtgacctca | ttttcttcaa | aaacacaaaa | ttgttcttgg | 180 |
| aatgtgtttt | catgctcttc | caagtgtagt | agataagagt | gagtttattt | aataaataac | 240 |
| aactggctat | tgttatttgn | ttatatgcct | ctatgaaata | aacgtttttg | ttgtgtgcaa | 300 |
| a | | | | | | 301 |

<210> 347
 <211> 148
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 347 | | | | | | |
| cagcttattc | tgtgcggtgg | cagcatttgg | gtgtttctac | tattgaatcg | ttgggaagtg | 60 |
| tgacttcaag | gaaccttaac | ttttttatat | tgttaaattt | cctgaccaaa | taaaaacaag | 120 |
| ttggcacttt | ggtacctaaa | aaaaaaaa | | | | 148 |

<210> 348
 <211> 202
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 348 | | | | | | |
| ttaaagggtc | ccgggcacaa | gagaaaaaag | agagagagag | aggagagaga | gagaaagaaa | 60 |
| aaagccactg | ggcgattgaa | atggtcgcat | tgagatgcgt | ggagccggct | gcagcgcgcg | 120 |
| gactcactca | aggggtcaag | tgacggacgg | attgttcgct | ccttcataat | aatattaatt | 180 |
| aaacaatttg | catgctaaaa | aa | | | | 202 |

<210> 349
 <211> 278
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| <400> 349 | | | | | | |
| aggagcgcag | accctgaggt | ctatgaaggt | tgggacctgc | ggacacgaag | tagcataccc | 60 |
| tttgagaaac | cagggtaggg | ttactctcca | gatcagcaga | aggcctagag | agggaagggc | 120 |
| tagctttctt | taatggcaac | ttgaaatcca | gcccattctt | gatactgact | atggaattaa | 180 |
| ccacctttct | ccataaaaatt | ctctagtctt | ccttggaaac | cctgcataaac | ctatgagtga | 240 |
| aacataaaat | aaactcctcc | tccctttaaa | aaaaaaaa | | | 278 |

<210> 350
 <211> 242
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 350 | | | | | | |
| aggccctcta | cagtancnac | tcctgaacag | atcaagtttc | agggaaggctg | acctctgaca | 60 |
| aggctaagag | ccacacccag | aagaccagca | cccacacctc | agctgcctgt | gcctttctgg | 120 |
| agttatagct | gccccgagtc | gaagtcctag | gagatgagcc | cctgtctgtg | ctgcactgat | 180 |
| ggattctaaa | ttttgttttt | gtttgttttt | aatttaaaagt | gagttttata | tacaaaaaaa | 240 |
| aa | | | | | | 242 |

<210> 351
 <211> 397
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 351 | | | | | | |
| tcgcctgcgc | cccaccgcga | ccctatttgn | gcttgaggtg | atggacntga | anacaccgga | 60 |
| ccggcgactc | ctcatcctgg | gactctgnta | ttcggctgtc | tccgagctgc | ccccgacact | 120 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| cctgggggtgg | gcgagaggaga | ctcccgcctca | gaacaagaac | aagtgagtct | gcttggtgac | 180 |
| tgccctgtgc | catggggcact | ggcttttacac | cccaacggcg | tgacacagag | tgtgccctct | 240 |
| gcacaccaag | ctctgtggac | acgagtgcag | ctcctgtctt | gcctgatgag | gtatctgaca | 300 |
| accagtgcc | ctatcgctgt | cganaacctn | gaacnnnttt | ccattcngga | aagtgggtca | 360 |
| gccatccanc | aacagttcca | gcacgccttc | ccacggc | | | 397 |

<210> 352
 <211> 304
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcctgtttcc | ccgtggcctc | aaatcacatt | ctgcctgctg | ataggactct | tgtttgcaat | 60 |
| agacacagtg | ctgtatttct | ctgtgcggag | gggtcttcaa | agtcctgtgg | ctgactatga | 120 |
| ggaacccaag | attcaatgga | gcaaggaacc | tcaggacaag | tgagctctta | tcgcatgcga | 180 |
| tgataagagc | aatgggtgtg | aacctatgag | cctccctggg | agcttgcaac | ctcaccagct | 240 |
| gcattggtca | ccatgctttg | agcagcagaa | ataatacaaa | ggcccccttc | ccaactgaaa | 300 |
| aaag | | | | | | 304 |

<210> 353
 <211> 311
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| aggagagaag | agtgcctcgt | ggcagatggg | actccctgag | gcagtagtct | cagccagaaa | 60 |
| gtgccaatca | tttatttaga | gggtcggggc | aggaactaga | actaaatttg | cttctcagtc | 120 |
| ccaaacctga | gggagagact | cttcaggata | gagacatcaa | ggaatagacc | ttcaaaaacta | 180 |
| ggaccgggtt | tcctctctca | ggaggaatgg | gacctctgag | caagaagagg | caacagcctt | 240 |
| ccctgtgaca | gcttggtcca | ctcgccttga | tcactttggg | tgagtgcctg | ccaaaagaag | 300 |
| atgtttgtca | t | | | | | 311 |

<210> 354
 <211> 361
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gtaacgcttg | ccacagtgca | gaagttnntt | caacctgnca | ggcagaggaa | gccttttgat | 60 |
| gacgcaaaat | gtgttgagtc | agcaaagaag | attttcagtt | aattcaggca | actataagta | 120 |
| catagccccc | acaaagccaa | ccttctaaaa | ttttgcatca | cattgaagtg | ttttgactaa | 180 |
| gtgttgacct | tacttagaaa | gctaacaagt | tttctaaggc | gtctgtgtca | attcaggtag | 240 |
| acatgactga | cgaggaacgg | ccggatgctc | tctagtgtga | gttaaaattg | aaatcatgat | 300 |
| cacttcctcg | gatattttct | tactgttcaa | taaaacaaaa | caagcttctt | aaaaaaaaaa | 360 |
| a | | | | | | 361 |

<210> 355
 <211> 293
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggggcaggaa | attgacagaa | cgtttgcctt | agcacaatct | gctgtatgaa | acacgaacgt | 60 |
| ggaaagcagt | gcctgtaaac | ccagaactca | ggagagtcag | aggttcaagg | tcattctcag | 120 |
| ctacacagtg | agtctggggc | cggcctgagc | aacatgagaa | ctgttttctt | ttctatatgt | 180 |
| tcacaccaag | cttctatgag | cccttgggac | ctccgcctta | gctacatcaa | gctgtgacgc | 240 |
| actcaaagga | accgttatcc | tatcaatccc | taccatgctc | aataaaaaaa | taa | 293 |

<210> 356
 <211> 364
 <212> DNA
 <213> Mus musculus

<400> 356
 ggatgattct gacagctaac tagctttctg tgacgggtgga gccggggagg aggccggtag 60
 ctatctttctg tcatgctgaa aaactgggat ggtgccttct tcaactactt ggtttgcatc 120
 aagatccaca gagacctctg aactcttcca gaagctcttt ctgaagggtg cccctccacg 180
 tgtaggtct tctctctggg cgctgcctg agcgtgctcc tgcacaggt ggggtgggac 240
 gctgaccgt ggggctgact tccactgac tgcacttaga atctgtgctt gggatgattg 300
 ggtgttggga catgtgttca aatgtggcaa agcaaaggcc aaagaagaaa gagattatta 360
 taaa 364

<210> 357
 <211> 641
 <212> DNA
 <213> Mus musculus

<400> 357
 ccgatttata cactaacatc ttccanattc tgaaacctga tgccatcaca tactttgggc 60
 tgagaaaaga aaatcaaaca tttgtttgat gcagcctccc tccctcagcc ttcnancagg 120
 ctgatccana ctttgacctt gctgccgcta anaagcgatt acctagggta gagccttctg 180
 accttgatgg ctctatttgc tcttctcctt gactctgctt ccagctgaaa ggtccctgac 240
 acagtccaaa gacacaccct gtagatcgcc taagggtggt ctcacaggtac caanaaatgg 300
 gttggcaggg gatgggcctt ccccttata agcacactct ctttaataaac tcgggggcct 360
 tgaaccgaac aaataatnct naanantttt tcccanttt tnatnattt ccttccctt 420
 tncctctttt tctctnttgt tccnttctnn tcttctcttn ctcttctctn tnnctcccc 480
 ttcttnttgc tccccctttn nntatttttn ntncatcnen cntttctnnt tntntcttcc 540
 ncnctanncg cccctntntt cttaatcttt cncctacccc attttntnt ncactctngtt 600
 ttccgcacnt ttccttaggt tnaccagttt tctctgtac g 641

<210> 358
 <211> 280
 <212> DNA
 <213> Mus musculus

<400> 358
 gggtagtaaa aaggcagaga ctgctggcag gaggnccctgg naagagagac ctnaagaggg 60
 agatntggcc taccacaatt ngganaggaa gagagatcac tttacgccat gatcatatca 120
 tccacctcat aagtatccat aaaactcttc tacagtccac agtgcagaac tccctggacg 180
 acttctctgcc ttggggcagc cgactgccat ccaactttgg agtatctgcn ttgcttagct 240
 ttgctaaata aatttctgct tatattgaat ataaaaaaaa 280

<210> 359
 <211> 265
 <212> DNA
 <213> Mus musculus

<400> 359
 ggtatgggaa gagagccgag gaggagaaca caggtggact tcttggagtg cagctctccc 60
 cctgcaccag ccccccagtt ggcttgattc cctgctctgc gccctggagc tgaaggcagg 120
 gagctctgnc naanggactt gcagcctnnc ttgtnttcag cccgtggntg aaagaaanta 180
 caggncacgc tcttntntnt gcaggcttgn aacaacctgc tnncttgcaa actaaataaa 240
 gcaaattana atcataaaaa aaaaa 265

<210> 360
 <211> 349

<212> DNA

<213> Mus musculus

<400> 360

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| atgaggaagc | ctgaacgtca | acactctgcg | cggagacttc | ggctctgcag | ccttccttcc | 60 |
| acgggtgggtg | gcatcttgcc | aatttgcagg | accaagaaag | aagcccagct | gctctcagag | 120 |
| gacccgaact | tcaattttta | accacactcc | tctcattgtg | tccggccttc | tgggcttaca | 180 |
| gcatttcaat | aggagcgggg | tgggggtggg | tggggtagct | ctccaatggc | tgaccgcaact | 240 |
| cttaagagat | gattttaattt | ccttatcctt | gntntctcan | aacngngtnt | ncntnagnta | 300 |
| nagggntcaa | cancnttgcg | nacttttnaag | ctgaataaaa | ccccttttc | | 349 |

<210> 361

<211> 273

<212> DNA

<213> Mus musculus

<400> 361

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| acacatcttg | atttcctggt | aaacaaaactg | agaggcacgg | tggagcactt | ggtgcgccgg | 60 |
| taaccgagag | agctcacgtg | accacaccgc | gccagcatgc | aaacatggtc | cttatgtcgn | 120 |
| cagagaaaat | ggtgaatgga | attcctgcca | cacagacgta | tgtcaagaca | aaactattat | 180 |
| ttcaactatt | tcaaaagtgt | atgcaogact | gtgttaggtc | ccacaacagt | tcacatttaa | 240 |
| acaaataaaa | cgttgaagag | aaacagaaaa | aaa | | | 273 |

<210> 362

<211> 238

<212> DNA

<213> Mus musculus

<400> 362

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| gtgggccc | caattccagt | gcagcgaagc | ccgaggccca | gccaggaaca | ggtggaccag | 60 |
| ttgcacgagt | tatatgtaga | gcatctcaca | cggctgtttg | aagaacacaa | gatgcactac | 120 |
| gggatccctg | ctcatcaaca | ccttgccttg | atgtccatgt | ccctgtgtcc | tggccttcct | 180 |
| gaaaaactgc | aggggtggat | tggggacatg | attaaagggtg | gaagcagaca | aaaaaaaa | 238 |

<210> 363

<211> 184

<212> DNA

<213> Mus musculus

<400> 363

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggacgcgttc | tgcttcccac | gcctgggggt | gggggctatg | gagacccgga | ggacccanca | 60 |
| ccnccancag | gctcgcccc | gctatatcca | gncttcccag | agcgaggcag | ngtgnatgag | 120 |
| taccgcnncn | cccaggaagc | annatgagtg | ccccacant | anagatcctt | tgagtgcgaa | 180 |
| aaaa | | | | | | 184 |

<210> 364

<211> 109

<212> DNA

<213> Mus musculus

<400> 364

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgtgacctat | gagcgcagta | agcaatgagg | ctggcttgag | ctaccaggct | gggcttggag | 60 |
| gggctacgac | ccaccaataa | aagtgtttca | tggatcacca | aaaaaaaa | | 109 |

<210> 365

<211> 155

<212> DNA

<213> Mus musculus

<400> 365
gaagataacc cccagtgccca tcacacagag gaaatgacca caatgaattg ttacattatg 60
cctgggtcttt ctcccaagag accatcagct ccggggtagt aaactagggtg ctctccatta 120
ataaatctga tgatgcgatg ctgtaaaaaa aaaaa 155

<210> 366
<211> 287
<212> DNA
<213> Mus musculus

<400> 366
gaccaaaaaag aagacctgac gtcattctga gcacccnccg catgcanagn gtgttcgcag 60
actgccaaacg ggctggctcc ggccagcaga agtgaacaga ggtggagggt cancctgaca 120
gcttctcccc aaagccatgg agagaaaacc ttaccacccc caccgcccag ctacttccag 180
caagtgttcc agcctgaccc ctctatttcc cctgttgtct cttatctggg tccctgagac 240
ccaccccatc tccaataaag aacattgcat actgtgaaaa aaaaaaa 287

<210> 367
<211> 114
<212> DNA
<213> Mus musculus

<400> 367
catatgcctt gcatcctgac cccacgttct catggatgga ggtcccatat cacaggagct 60
tctttccctt tgctengatc tccaattnaa gcctttggga cttgaggatg gaga 114

<210> 368
<211> 299
<212> DNA
<213> Mus musculus

<400> 368
gacgtgagct gtcaacgctg agcttccagc tgcnnccgcc nttnnagntc gngncccntg 60
acatcnttga ccctaaccct ntgaaccgn anccncanna taaactntnt nttcttctnn 120
tgaanggaagg aaaacatgaa ccanggtggc tttaccaacc acangtnttt gtgacatcat 180
aaagttagaa taattgggat aaagctttta tcattatcaa ttgggttctga aattactgta 240
ttggcatctt gtaaatgag actttattga tacataaatc tgattgggta attataaaa 299

<210> 369
<211> 408
<212> DNA
<213> Mus musculus

<400> 369
ccgaagtccc agcttgaatc gaaagaaaaat cagaagtttg atgtctttta agccatatcc 60
ttcaagagac agatagtggc tggcaccaac ctcttcatca aggttgatgt tgggtggagat 120
aaatgcgtgc acttgagggt gtttcaaccc ctccccatg aaaacaagcc tttgaccctg 180
tcttccatc agaccaacaa agaaaggcac gatgagctct cctacttctg attcggggct 240
cctttgcacc tgtgtttggg accacgtagt aaaaccccc tcggtgatgg agagaaggga 300
gttgagcagc ttctgttgtg attctcaaac tgcgttgtat tttgcatcct tccaaataat 360
tattttcaga aaactgtata tgatctctct aaatatatat tttttaga 408

<210> 370
<211> 381
<212> DNA
<213> Mus musculus

<400> 370

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gccttttcat | ccctctgcta | acctgaccta | ggactgggct | gcctcctgca | tccacagcaa | 60 |
| acacagngag | aaggctgatt | ccatgacagg | cttcaaata | acagttaagg | agactagacc | 120 |
| taaaaataca | ggcttggtt | tgagcagcca | gtcagaaact | gccctatcac | ctggcctgaa | 180 |
| gcaaggacaa | tgggtcagca | gtttcctgct | ggccccacg | ccccagtaac | ggaatgtcct | 240 |
| ttgtgataga | gtaagacaaa | gccaacctac | ctcgggattc | ccctaaggag | ctttaaattg | 300 |
| aacctgtgaa | cttcagagtc | tctctatctt | ggtaatggga | gaccccagca | tgttggaact | 360 |
| ctgcagaata | atcactctgc | a | | | | 381 |

<210> 371
 <211> 188
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 371 | | | | | | |
| gattgaagag | gaagccaggc | agaagaagat | gtagatgcac | tggcccaggt | ggatccacaa | 60 |
| cacccgagta | taacattgac | cctgaggcct | gtgacctgtt | atggctctgt | aattgtgtaa | 120 |
| gcttgagcgt | ttttataccc | agcagcgtag | atttcataat | aaagtagttt | gttgaggaaa | 180 |
| aaaaaaaa | | | | | | 188 |

<210> 372
 <211> 303
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 372 | | | | | | |
| aggacacgat | gtggagcggc | tggagcgcct | gcaggagcag | ttaaagaagg | ctaccgccat | 60 |
| gctaggggag | gctctcggga | gggaaggctg | accccacgcc | actccttccc | cacactccct | 120 |
| gaggctcagg | actgttgacc | tcagagcctc | ctttcacccg | gcattctgct | ccacttccaa | 180 |
| ctggtaggga | ctggaagcaa | ggatgtgcct | gagaaccaag | cctgagagaa | gcctatgggc | 240 |
| agggcgtggn | ctccggctga | ctcaggaccc | cgccccaccc | ctccatccct | gagtgaataa | 300 |
| agc | | | | | | 303 |

<210> 373
 <211> 106
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 373 | | | | | | |
| tattttacttt | acaatgatgt | tagncncccc | ccatacttga | gtaataaaan | tggcggggtt | 60 |
| ggaancgtgc | tgtatacata | aatgaataaa | taaatcttta | aaaaag | | 106 |

<210> 374
 <211> 335
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 374 | | | | | | |
| aggacctcaa | ccaactgaag | agttgacccc | gccagtctgc | gtctctctgt | cttcacttga | 60 |
| atgtctttga | gaatatgtaa | aaaggagcca | catgcacctc | cacgcagtgt | gcaggacgag | 120 |
| aacttcogtc | attgtatata | ggcctctgcc | ccgtctcccc | ttaaggttat | ccactgtgct | 180 |
| tgatgagtga | gcagtcaata | catctgctgc | ccgtcggcat | tctgggttaa | taaaactata | 240 |
| ggaattat | cacaaacaaa | ctatggaaag | cagtattaaa | atctgagttc | tgtatctact | 300 |
| ttaataaatg | ttttgggtct | ctttgaaaaa | aaaaa | | | 335 |

<210> 375
 <211> 141
 <212> DNA
 <213> Mus musculus

<400> 375
 tgtgggtgcc ctaaggcttg gaattcngtg gtggaagntg ntncncanng cgacagtcca 60
 tgccctntnc ctgcgnaggc tctttgtcat cacgaggcnt ggaccnagga agtgaonccc 120
 gtgctacggg actatgatgg a 141

<210> 376
 <211> 433
 <212> DNA
 <213> Mus musculus

<400> 376
 gggaatcaac agcaaaggat tggtagctg cagaaattct catggattgt tgttcttca 60
 cacagcanaa gacgtcaggg acccctttca ttctggtatt ctactgcag ataggctctg 120
 tggaataaca gttcttccca cccctctgcg tatttttaaa atgttttggt acctcttctg 180
 gccatgatag tgtctagtga tgccctctcc cattctcaca gatgatgccg tttccctott 240
 agtactttca agatggctct ctgtgtctgg ttttcagaag tttcaccatg tgtcttggtg 300
 tggattcttt aggtttatct tatgcttggt cagcttctct aatctgaaga agtcaagggt 360
 tatgtctctt gacaaattca gaacattttc acatgaccaa cattattatt attaaatggt 420
 ttctctgtgt aaa 433

<210> 377
 <211> 202
 <212> DNA
 <213> Mus musculus

<400> 377
 gtgagaagag actagggtgtg acttaagaga gaatgcattt ttaacaagtt cttttcttct 60
 cggctaaaga agtcccggt atncttcacc atggagctca cgcattagct tctgcagaaa 120
 gacttcccaa atgtcaccaa gcagcgtct cactcttgag agcaggatta ataaattatt 180
 tgnittacct gaaaaaaaa aa 202

<210> 378
 <211> 255
 <212> DNA
 <213> Mus musculus

<400> 378
 gagatgtctt ctttgaccaa aagatctcct ttgtgatccc ctgcaacaac cactgaggat 60
 ctgccttgca ctctggagaa catggtcctg aaggccttca cgtccoctaa tttcccacaa 120
 actctgtcag ttcagcgcca tttctgatat ccatccagta tatccaatct tgcatagatt 180
 ctataaagtc ttacttgcta gagtatactt gggctaaagt ggtaataaaa gttgtttcca 240
 tttgaaaaaa aaaaa 255

<210> 379
 <211> 120
 <212> DNA
 <213> Mus musculus

<400> 379
 aactgtgcgt atcacaactg agtnatctcc cctggcagcg gacatcttga cctgcctcog 60
 gagcttttgc ttgtcttccg taggtcaagg cgttggtct ctctctctct ttttttttaa 120

<210> 380
 <211> 259
 <212> DNA
 <213> Mus musculus

<400> 380

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agggcctgat | agaccttgtc | gagctgaccc | cctanatnct | gtgatcgatt | cgccgaggtt | 60 |
| anctganana | ngcaaccacc | attacagagn | gtcttcatac | cttttgtaaa | agctgcattg | 120 |
| tgagacattt | ttactatagt | aacagatgcc | caaaatgcaa | catagttgtc | caccagactc | 180 |
| agcctcttta | taatataagg | ttggaccggc | agttacaaga | catagtatac | aaattagtga | 240 |
| tcaatctaga | aaaaaaaa | | | | | 259 |

<210> 381
 <211> 128
 <212> DNA
 <213> Mus musculus

| | | |
|------------|------------|-------------|
| <400> 381 | | |
| ctgcttcaca | cattttccca | gacctnecgtt |
| aggntnctac | acggccanaa | gtgnantian |
| tatcttcc | | |

| | | | |
|------------|------------|------------|-----|
| ncntnatggc | ncagaccctg | tgcgttgctn | 60 |
| ctttccgttt | ccagcatctn | cccgttcccc | 120 |
| | | | 128 |

<210> 382
 <211> 126
 <212> DNA
 <213> Mus musculus

| | | |
|------------|------------|------------|
| <400> 382 | | |
| tgtaatggaa | tccgatgtcc | tcttctggtc |
| taaaaaagaa | ggaaagaaag | acaagaaaag |
| attata | | |

| | | | |
|------------|------------|------------|-----|
| tgtctaagag | atctacagta | aataagtaag | 60 |
| gagagtgaat | gaaagatttt | ttaaaaaaag | 120 |
| | | | 126 |

<210> 383
 <211> 409
 <212> DNA
 <213> Mus musculus

| | | |
|------------|-------------|------------|
| <400> 383 | | |
| agcaaattaa | agtgtctacaa | acagaggaaa |
| caggtctggg | tccaggtccg | aaatcccatc |
| catcagtcac | ggcatccacc | attttactcg |
| agcttgaaac | gctatcttaa | tctttatctg |
| caagagaaaa | aaatgtagtt | ttccttggac |
| tgttcctcat | tttacaattt | aaaaagctgg |
| tttctggatt | aantttaagg | actgcaaaaa |

| | | | |
|------------|------------|------------|-----|
| atcctctcct | gcgggatgaa | aagcctgctc | 60 |
| cctctgcctc | ctctggcaat | acgctccttc | 120 |
| ttgcttctgc | tgtaaacttc | atcgagctat | 180 |
| aaagactgct | atggggatcc | cacaggaagt | 240 |
| agacttgact | gtataaaaga | actgtatatt | 300 |
| tccagatagt | atcatagaat | taacttttca | 360 |
| atatacttt | | | 409 |

<210> 384
 <211> 422
 <212> DNA
 <213> Mus musculus

| | | |
|------------|------------|------------|
| <400> 384 | | |
| gggtgacacc | tctggagact | tcataaaggg |
| aagctcctga | cctcagaggg | ccccctctac |
| cgtgacctga | ccaagccatt | gctccagctt |
| ttggactgtc | catccagctg | gggcactctc |
| tgttatccct | cccgtctcat | gctaaggggc |
| ctctgatccc | cttctaccta | ctcctccggc |
| tgcctgactt | gagctttgtc | acatctcaag |
| aa | | |

| | | | |
|------------|------------|------------|-----|
| tttgcttgct | ctgtgtggcg | gagaggacta | 60 |
| caagcagtg | ccaactgcac | cagctgccgc | 120 |
| caggatctaa | ggaagacgca | aggggtgggg | 180 |
| tagccattga | gggtcccagg | cggtcccttc | 240 |
| tggtgaacca | cggccatata | ctgcattcaa | 300 |
| cgccctgggt | tccatccctc | cacataaacc | 360 |
| cctctgtcta | tgaaaaaaaa | | 420 |
| | | | 422 |

<210> 385
 <211> 208
 <212> DNA

<213> Mus musculus

<400> 385

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| aggacggaag | gggaaggagc | ctnggagcct | cagagcaccg | gggccangcc | tngaganaac | 60 |
| cagatntnag | ccggcgcgaga | tacgcccagc | ttataacacc | ctncaccggg | cctctcttcc | 120 |
| ggctagtcca | aaaaagcgac | caagctttaa | acaagattcc | acaaacgaaa | cacaatttaa | 180 |
| attaaataaa | aacacttttc | cacccgcc | | | | 208 |

<210> 386

<211> 206

<212> DNA

<213> Mus musculus

<400> 386

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aggcgtgtcc | ctatgtagct | caggcttgcc | tttgacttgn | gactgncctg | cttntgccac | 60 |
| ctgaatcctg | catgtgacat | cccacgctgt | acagtnagga | agtctcactt | gcttncacac | 120 |
| caaacccttt | tccattnggg | tcacttgang | aatctgtggg | agtccactga | ctacaggngt | 180 |
| ggaaaaccgg | ggccccgaat | gaagga | | | | 206 |

<210> 387

<211> 222

<212> DNA

<213> Mus musculus

<400> 387

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| ctatatgtgt | accacatgca | tgccctgtcc | cncctgangc | cagcaagaan | gtatgnnacc | 60 |
| ttantanaat | tgaagcta | ggtggttat | gaaccaccaa | gtagatgctg | gcaactgaac | 120 |
| ccaggtcctc | ggaaagaaca | acacaagctc | caaacctccg | agccagctct | ccagtcggcc | 180 |
| caagactcac | ggttttaaaa | cactgttcat | gcgttgccctg | ca | | 222 |

<210> 388

<211> 242

<212> DNA

<213> Mus musculus

<400> 388

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| aggctctggc | tcccctcagg | aacccaatta | gtgtggcgcc | aggctggccta | caggatgggtg | 60 |
| tcttctgacc | taggtgaaga | tcttccacct | tgctacacct | gcaatttcct | acaggagcag | 120 |
| actgcgtgct | gagctggctt | tgcaacataa | tccagctgaa | acaaaggata | aagctgtgga | 180 |
| tttcccccta | tataaatgca | cagctgaaaa | ttaaactttg | agccttgatt | agaaaaaaaa | 240 |
| aa | | | | | | 242 |

<210> 389

<211> 146

<212> DNA

<213> Mus musculus

<400> 389

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| caaacgggag | ccgctntgna | ctgaactggct | gccttctctc | tcctccccct | cctccccctt | 60 |
| ctgcttcaga | tnnattgant | atangtaagt | acacatgtnn | cagtatgtag | gacacactag | 120 |
| acgagggcac | cagatctcat | tgtggg | | | | 146 |

<210> 390

<211> 364

<212> DNA

<213> Mus musculus

<400> 390

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| cttataacaa | gtattaaggg | tccagtatcc | tcactnccca | cgncangatt | tcaactgggnc | 60 |
| ttattacaga | taatgggagg | cacacaggga | gngcaagaaa | atgtaatgct | actagggtgc | 120 |
| ggnccagaag | naccttctgg | ttcacgagaa | ggnacgtgta | tcttgctagc | tcctgncaaa | 180 |
| gnectcccca | acaaacgcac | ctggtaaaaag | actgnaaggg | cgtactcttc | atccatttcc | 240 |
| acgttcatca | gtaagcagca | gccgttgagc | ttctctgaaa | ctcatccggc | catcctgggt | 300 |
| tctgtctgct | tgctggaacc | actcattcaa | cattccagct | ctgagtcaag | gcaaaagctc | 360 |
| ggtg | | | | | | 364 |

<210> 391
 <211> 236
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 391 | | | | | | |
| ggaagtctga | tgagcgaagc | gttctgaagt | tggttggcaa | actgagagat | gtgctcggga | 60 |
| ttctcggcat | gcttgctttc | ccttgccctg | ctggccaaga | actcttcagc | atctgtgagg | 120 |
| ggttgaaaga | tctcaagccg | tgaagccttt | aaaagccaat | gtgcagcttg | agagtccagg | 180 |
| gcagtgctcta | ctgccaaggg | ccttagcttt | tcaaataat | ttttaaaga | aaaaa | 236 |

<210> 392
 <211> 104
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 392 | | | | | | |
| gcacacagat | gacctgattt | cccacaagcc | tgggattgct | gtctatgcat | gtgtctgtgt | 60 |
| atctacacat | acacacccat | aataaaacta | catatatatta | ttga | | 104 |

<210> 393
 <211> 299
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 393 | | | | | | |
| tacctacccc | gtccctggat | gcagngggca | cattngcagg | anggnccanc | atggctaaga | 60 |
| nagntcgnct | tnccgctgac | ccnchnangc | tgaanctcac | aanacctgcc | cttccangag | 120 |
| gacattngtt | nagaagcctg | gccaccgnnc | atgagcangt | gngccaagga | tctccatgag | 180 |
| gggccacact | ggctctactg | tggttcagtga | gggaggggata | tgctgtatatt | gcagcangga | 240 |
| ctcagaacat | anntgctgat | cacagaggga | cncactagag | caggttgtga | gttataage | 299 |

<210> 394
 <211> 336
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 394 | | | | | | |
| ggctcctcct | ggacacttcc | tgctgtgcag | ctttctccca | ccataggaat | cattactctg | 60 |
| acttcaactg | ctgggatctg | gggacacagt | gttcacagtc | tcattctgaa | gtcccttggt | 120 |
| tgtoocaatt | gtctgttagg | atgtggggat | ctcgcttggt | ccatgagaaa | tggcagaggc | 180 |
| ttttcctata | aaagtagcac | acaagacgac | agcataatct | atgaaatcaa | tattctgtcc | 240 |
| atgtgagggt | tgtaactttt | agtaccactt | tgaattaatg | atgttcaatg | aacagtttaa | 300 |
| aactttataa | taaattgaat | tttaagacaa | aaaaaa | | | 336 |

<210> 395
 <211> 228
 <212> DNA
 <213> Mus musculus

<400> 395
gcactctacc cctggacccc ggattgcato ataaagcagt gctgtctcct gcttctcttt 60
ctctctccct gctgtgaagg tctctctgtt ggctcccttc cctactctgc atagaagctg 120
catatgaaca gcttcaaccc catagcaatt atggtttctg tagtgtcctg cattaataat 180
gctatctctc ttogtcaaca ataaagggtt ttacaaaagg aaaaaaaaa 228

<210> 396
<211> 121
<212> DNA
<213> Mus musculus

<400> 396
gacaggggtt ctctgtatag ccagcgcttg actgtcccgg aattcactgc atagaccaag 60
ctgacctgga actcagagat ctgcctacct gaataaagggt gtgagccacc atacttggcc 120
a 121

<210> 397
<211> 337
<212> DNA
<213> Mus musculus

<400> 397
aacttttggtc cccattcacc accgtcatcn cgaanaggaa caagatgnnc ntactatgtc 60
cggagnnact accaccagac ntataacctgt aacaagtaac ccaggacgga ntactgcngg 120
cnctcanggg nactggaaa nntcctgccc catggcccat tanaaaatan tttctctnca 180
cgaaactgtg ccctgnaggc ntncatcaac accatgaatt gaatggnacg gagtggnant 240
gntgaagaan taacatang ctctntatgg caaagcacac acaccacacg ggacctttac 300
atgnaatctg gttgttattg gggtttggat ttccaga 337

<210> 398
<211> 146
<212> DNA
<213> Mus musculus

<400> 398
aagagtgcct accgaaggag tgggatggct ttcttgccct gctgagggga ccatggccgt 60
gctgcccgc accgaaggag agtggttcac cgaggtcatt cttgcctgtc ctgccggaaa 120
ataaaatagg attttatgtt ctctctg 146

<210> 399
<211> 240
<212> DNA
<213> Mus musculus

<400> 399
gggcatactt tgagaagaca cagagcagc tgacaccctt tgtcaggtca gcaggaacta 60
gtctggtgaa cttcttcagc agtttaatga acctcgagga gaaaccggct cctgcggcta 120
agtgcagatgt gccaggcca gtcttccac cccagctgct ccactggcca ccgctagagc 180
ccctctccct accttctgcc tgttttctcc aataaatgag gaaggagtta aaaaaaaaaa 240

<210> 400
<211> 280
<212> DNA
<213> Mus musculus

<400> 400
agcttctttt aatagtataa agcgaaggag aaagcggcgg tgatgctgtt caggagagca 60
cacacgtgaa gacaaatagc gtgattactc ttttcacggc gatggacacc aggaacaatg 120

| | |
|---|-----|
| cgagcatctg agggcacaag acttcatcac agggcctggc tttctcatcc tgacgcaccc | 180 |
| acagcaaggc ctggattatg cctgcttttg atctcactaa tttgctattg ggacagaagt | 240 |
| tattcatttg ggggtgcaata aagaaattcc aatttgaacg | 280 |

<210> 401
 <211> 267
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 401 | |
| acctcccagt tccgaagat ttcctactgt ctagatgctg ccacaccttc ctgccagcca | 60 |
| gcccagaggg atgttccatc accttcacag tatttattat cctctgccac ctcaactgctc | 120 |
| ccatacagac atccttacac aaccagcaac gcaacaagga aactgaaaa aatgcctcat | 180 |
| tctaataaag tgactttctc cattaccctt acccctctac agacagattt aaaagcagac | 240 |
| agaacaaata aacgaacagc aacaaaa | 267 |

<210> 402
 <211> 123
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 402 | |
| gggaacattt gtgggcagga aagaccngga aagtagtgct ggagaaggag actggagaga | 60 |
| aacactgggc ctgtccctgt gatgcacttc tgccagcaag ggcacgccta ccagtccttg | 120 |
| aag | 123 |

<210> 403
 <211> 315
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 403 | |
| ccctctacac taaagttggt gcggttttga gacaggggtct cgggtagccc aggctaatac | 60 |
| agctgaagat gaccttgaac tctgtcttct acttcctgag tggtgggatt tcaagtatgt | 120 |
| gctacgatac caagctgaat taggcctcta ccacacatg caaggacctg aactacatac | 180 |
| acagcatcat taaacaatgc agtactttgt totgaatagt tttagctcta ttataaatgc | 240 |
| catgttttac acctgggaga tagcaatatg aagataaggc tcagtaataa agatgctgac | 300 |
| agctaaaaaa aaaaa | 315 |

<210> 404
 <211> 361
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 404 | |
| actgagaaac agctctgaag cggttttgctg ccngctagc anaccnnnnc tgggnttgng | 60 |
| cgotacctgc cgntgnaatg ctcgggagat tgccacttcc acaactgctt tttgctgcca | 120 |
| tccttggaat tgctggagga atgtatatatt atcagccaat atttgaacaa tattccagag | 180 |
| atcagaagga attaaaagaa aagggtgaagt tggttgaaga atcagaagaa aaggagagcta | 240 |
| attctgcata aactgaaatt gtaaaccctg cttaacgttc tattgaaatc acaccgacta | 300 |
| ttagtctagt aagacttttag gtatgcttta aataaataaa tcatgggtaa tgaaaaaaaa | 360 |
| a | 361 |

<210> 405
 <211> 329
 <212> DNA
 <213> Mus musculus

<400> 405
gactgtgaag aagggtcaaga ggatggctca aggaatgaaa cacctttttc tacaagtga 60
gactctgatt tagaaacgga aacggtcgag cttgggtggag ggttttatgt gaaatcattt 120
ttaaagtatt cagaaaattc tgtcccagcc actcaaaggt tcctgacctt tctgaagtca 180
tggaactggtg ggccctggccc gcaagcgtga acagctgctg aattctgcaa acaaggactt 240
ggctcagtat ttgatagatg ccttgatttc catttcatgt atttaattta atttaataaa 300
atataagcat taataatgtg aaaaaaaaa 329

<210> 406
<211> 396
<212> DNA
<213> Mus musculus

<400> 406
gctctgggga gctcctgcat taanaaaaaa ctgaagngca ntncggctta agtcctaaat 60
caatgcgctt gaaaatctcg ttcccaaagc gtgtctgtca gaactgttac tatagcttgc 120
agcatgagag gggggcagaa gatggacctc ggaactgctg agatggaggg actggcgaga 180
gaccacagcc taggaggctc ttcacatcct gccgggactc cagaggcact gaagcagtct 240
ccgtttacac ggctcttcac tgagtgttgg aagtgtgag tgtaaaggaa tcattggatc 300
acggcttccg agggcagtga ccggcacggg tactgtgcag tgaacagcac aagaggaagt 360
ggctcccagg agcatctcag acctgagtct ccccta 396

<210> 407
<211> 369
<212> DNA
<213> Mus musculus

<400> 407
ggtcttgggtg caactgaagc aggcgctatg atgtgttgtt tccatctgag caaatttctt 60
ataaagtatc ttatcagttg tctggagcca tagcaggaag tcacttagat acatgtcatc 120
tgaaacccaa agtttggacg ttctccaaag ggtcatctgg atcgggtgtc ctacttttct 180
ctcagcaatg ctgaggtctc attgctaacc cctgaggata agggatggct agaattcagc 240
gtataacaga acataagaag agctggagga ggcggtacag acttggtantc ccagcactca 300
ccangctnga ngcaggaagg ggtggcctaa aagtccaga cccaacctga ntttccaggg 360
ggaagacct 369

<210> 408
<211> 102
<212> DNA
<213> Mus musculus

<400> 408
ccctctgatt gccctgtcta ccccttgcag tgctggactt cagatctgac ccataacctg 60
cctgttgctt atganccctca natccaaagt tggccagcat tt 102

<210> 409
<211> 786
<212> DNA
<213> Mus musculus

<400> 409
gtgctgcgtg aaggccctta ccccggcatt cctgggtctgt gtaggatcct cgcctttctg 60
taggaattac ctccagggga agaaggtgca caggtaacat gggagccaga ccctggggtc 120
tcttccctca acttctctg ctggactttg tacacgggaa tcactctggc tagagtgtag 180
cactctatcc tcagggacag tgggtccag cctcttgggt gggaagaagc tgcaggacct 240
cctgaacctta agcctgtctg gctgagtgtt gggctccagc tgggcccgcac tctcctcaga 300
ttcacagccc tgccctggcc agtacatctt tggagtccat ctctgaaaaa atcatccact 360
gcagttacca gaatagctgg ccttggtaac tccctagccc agagactgtc gcaggatgca 420

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| gtgacagtct | taacctttgt | ggcatcgggc | acatacagaa | ggcacaactc | caaggcaata | 480 |
| aaccagccct | gcacatactc | taaggcctta | aggcttgaaa | gactggctca | gttgcttcac | 540 |
| cagcctggag | gaaagctaa | atgctgtgga | tgccatgaag | tgactgcagc | catgaagcca | 600 |
| catcctgtct | ggtgactgna | taaacttggg | atcctgggac | tactcagagc | ccctactgga | 660 |
| tctctacttc | tcaatgccc | tgccaagggc | ttngngccaca | ttntggacag | aagctttgag | 720 |
| gagtcannng | ggnccagnng | tttggaaang | nnggncttgg | ggtggttccc | tttaatttgg | 780 |
| gagggc | | | | | | 786 |

<210> 410
 <211> 301
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 410 | | | | | | |
| aagcagctca | agaggcagct | ggaggangca | ccaggaggag | gcatnnnngg | gcacttgctg | 60 |
| gtcggaggcg | gctgcagcgg | gagctggagg | acgtcactga | gtctgcagaa | tccatgaacc | 120 |
| gggaggtgac | cacgctgagg | aacaggctcc | ggcgtggccc | acttacattc | accacacgga | 180 |
| ctgtgcgcca | ggtgttccgg | ctgggaanagg | gctgtggcttc | tgaacaggaa | gaggctgaag | 240 |
| gagctgaacc | tggtctctgca | ccangccagg | agccggaggc | tcgcgccctc | gccacacccc | 300 |
| a | | | | | | 301 |

<210> 411
 <211> 326
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 411 | | | | | | |
| gatctctggg | agccggttca | gagcacatat | gccgccactc | agaactgtca | tctgccacc | 60 |
| ctatgtctcc | ttcctggaca | ggagactatg | gaggaagatg | tgggtcaaat | tccttctac | 120 |
| cgcaagacca | taatcatcat | agaccgcat | cattggaaca | ctcagaagtc | caagttgcat | 180 |
| gctttttatc | tttgcctatc | cttctgcct | ctgtccctgt | ggacagtga | cacagcatac | 240 |
| tggagccagt | gcttttagga | gcaaactgaa | tccatcactt | ccaattccac | attcagcaaa | 300 |
| ataaaggcaa | actggccata | gctaca | | | | 326 |

<210> 412
 <211> 304
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 412 | | | | | | |
| caccggcagc | cttggcatga | cgctcgtgaag | gtggccattg | ctaacctgac | atgtggggac | 60 |
| tcagggaacc | caccccttat | gggctccang | ctgngctgct | gnccccagnt | ttgnggctct | 120 |
| aanangccct | tgtctgtacc | ccacatcanc | ctgctgccat | ccatgtgtgc | ccttgnatga | 180 |
| aggcctcgnt | gnccctgcc | atgaggatgt | gtgccccagt | tanggggctg | ttnttgancc | 240 |
| tggngggant | gctgaanacc | tngcggont | ttgcacctnt | gccttgctta | acctgggaaa | 300 |
| atgg | | | | | | 304 |

<210> 413
 <211> 491
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 413 | | | | | | |
| tgatgcgatt | gactaaacct | actttgttca | ccaatatcc | tgtaacgtgt | gaagagaagg | 60 |
| acttacctgg | tgatctcttt | aaccagttaa | tgaaagatga | tccttcaact | gtaaatgggtg | 120 |
| cagagatttt | aatgttggga | gaaatgttga | ctttacccca | aaatttcggg | aatatatattt | 180 |
| tgggagagac | cttttccagt | tatatcagtg | ttcacaatga | cagcaatcaa | gttgtaaaag | 240 |
| atatattggt | gaaggcggat | ctgcagacga | gttctcagcg | tttaaacctt | tcagcctcca | 300 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atgctgctgt | ggctgaactt | aaacccgact | gctgtattga | tgacgtcata | caccatgaag | 360 |
| taaaggaaat | tgggactcac | atgttggana | tggntaccgg | ttntcnaaaa | cttnnggtca | 420 |
| tttattaagt | tcactttcct | ttttcctctn | tttggctttt | gcataccatt | antaattata | 480 |
| taccttaaat | a | | | | | 491 |

<210> 414
 <211> 345
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 414 | | | | | | |
| gaacacgaac | tcaaacatga | acaacgatac | atattacaaa | tgttcaaagc | tgattttgggt | 60 |
| agaattggaa | tacagttgca | tacaacatat | tccagaagaa | tcagaaaagt | caaagtaatg | 120 |
| gataacagaa | aagagcctcc | attcttcaat | gaagataacg | tgggaccatt | ttatttcaaa | 180 |
| cttcctttct | atgacaccat | ggaactcttc | atcgaaacgt | tgactggaac | atgttttgaa | 240 |
| ctaagagttt | caccctttga | agctgtttatc | tctgtgaaag | gaaaaattca | aagattggaa | 300 |
| ggnattagnc | tttgnacaat | atganggatt | aagcatctta | taagt | | 345 |

<210> 415
 <211> 392
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| <400> 415 | | | | | | |
| gttttgagag | attgctacaa | tttggactca | caagcaagat | ttactgcaaa | ctttgagatg | 60 |
| gagtaggtac | ttttcagatg | gtggctggct | gccagaaaag | atgctgtagt | gaaactagga | 120 |
| gaagntgatt | tccaggtcat | atgtcattag | tgtggacgct | gctgtcttaa | gtctgtggcc | 180 |
| atggcaccag | aacacaaaagc | ttgtgcctct | tactcagctg | tccacggagc | ctangaagcg | 240 |
| cctggggcca | ggcaccagcc | ttgtctctcag | agaagatgtg | tctgcaggca | gcgtggacct | 300 |
| gtgctatctt | cctagaacac | attgnactca | tgtttttaac | acttggnttt | tgattttaaa | 360 |
| aattagtatg | agtgcctcag | atatgaaaac | ag | | | 392 |

<210> 416
 <211> 155
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 416 | | | | | | |
| gtacagctcg | ggactagtca | gactctacag | cttccaagcc | atcatcgaac | agactnacca | 60 |
| cctccactct | ntgaagtttc | atctntggag | aacgcattcc | agatnnggag | ccatccttgn | 120 |
| cactacatca | tcacgcctaa | taagaagaaa | cagaa | | | 155 |

<210> 417
 <211> 404
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 417 | | | | | | |
| aaagcatgcc | ctgaactgcc | atcgnatgaa | gtctgctctc | ttcagtgtgc | tctgcgagat | 60 |
| caaggggaag | actggtcctt | gtggccctt | gccacaaacc | aanggaagng | acatgnnnnt | 120 |
| nactctgnng | accctggcct | tcctccagcc | ccccactggg | ggagtctgcc | tacagccctt | 180 |
| ggtncatagt | aactggcana | gggcgcgcc | acagccagcc | tcacacctg | cgggagagtc | 240 |
| tggcagcttc | aattcngatg | ctgcatctaa | ttaagtntct | ggcacctggc | tgagtgccat | 300 |
| aagtgaactg | ncctgtggnn | cngctgnnt | aacctnaana | angcccttgc | tgcggtcttt | 360 |
| gccctttttc | aaggccactt | gcctccccc | cttgggtgtga | aaga | | 404 |

<210> 418
 <211> 393

<212> DNA
<213> Mus musculus

<400> 418
tattttaatgg aaatgaataa ctccttttga gaaagccatg gcgaagttaa acacaaagct 60
caggggttgt tctcgagagt cttcagatgc ttctctcctg gcaagcggca gcctgagtgg 120
cagcagctcc cacagctccc acagctcgtt tgtgtataag gaccagctgt acagctcggc 180
ttccgaggcc ctgcaggcct atattgatga ttttgacctg agcagagAAC atcctgggtgc 240
aaacgctgtc aaagtgaaca ctgacgggtga gattggtaat gggctgcaat tttccagcta 300
cgtacataca cccgacaatg cttttgncaa tcttgatccc aagcagcact ttaacccctt 360
tatactatag aagagagact gttaatgaca tgg 393

<210> 419
<211> 283
<212> DNA
<213> Mus musculus

<400> 419
tctggtaaaa ttacagaca aatcatcaaa gctgncgggg gananaagag tgcnnntnan 60
taggagnaat gtncatttaa aaatagctaa ttgcatttct gcatgactgg gctcctaaaa 120
aagctagtct ttagggctcct tggagacagt atggagtctc agtctcctcc tggctgcctg 180
cagaagacag tctcttccctg gctgccttca gatcaagatg taaactcttc ggcttctnca 240
gcaccatgtc agcctacagg ntcnctatga tcataatgga cta 283

<210> 420
<211> 444
<212> DNA
<213> Mus musculus

<400> 420
gaacacaagt ccaagcgggc acatggaggc cagctggaaa ctacatctcc cagcttcccc 60
tgcagcagtg gtggccatag cagtgggtgac agccagcacc ctggtgttgc tcttgattcc 120
gggggactct gagtgccagg aatggccttc aggaaatgaa cctggtcctg ccttcaactat 180
gccactgaca catcttccag aagataccac aagagggaga aattgaccga tggaggagga 240
gactcagagg tgcaggaagc aagcagaaaa tggccttaga gtgggcagct gataatgatt 300
tagagaaaca caagctacct ggccatggca ttaagacaat acaatgcaac tgctatggat 360
ttgataaaaa ctgattaaat ttttaatttg ttaaatataa attttaattt gattaaaaatt 420
aaatttttaat taaatacaaa aaaa 444

<210> 421
<211> 412
<212> DNA
<213> Mus musculus

<400> 421
gtgactgtgt tttattttca tgnccctgtga tacaagagaa tactgaggag cagagctcca 60
gggctctcca agccagcagg aggagtctga tgctctaagg ctagcgtat caaggaggga 120
gcgtctgcga agagtttcaa gacagcattt catcttatgg atttgccata gtccttccaa 180
gttgacttat catgcanntg aagaaatgga tgagngaaga gannnccaan atggaggagt 240
ctcagctata tccaactgcn acatacaaac atatggtaat ggcactgtna ttctgaaact 300
aangacataa ataatgctgn gtaataattt aaaaacaaat attcagacta aactataacc 360
actacagagt ntacatccat aaattactta tgctgnaaat attaactctg tc 412

<210> 422
<211> 374
<212> DNA
<213> Mus musculus

<400> 422
 ccgactatgt gacactctga tttnnncagnc ctgacttccc cacctgtgga accgtgaaac 60
 gatacgtttg cctaatatgc gaccatgccca tacaggcttc tncacacnct ggcaagttgt 120
 acnngcata tcagcaangg ctctcnagat gtctnagac ttactnngct tanattanga 180
 ccacttaccg aaatatgatg gtacagnatg cnacaatggc ctgaccatac agantcnttt 240
 anactcatnc tntccangga tgacanctga cagatngaatt aanccacann tcttgggnan 300
 gaaccggatn gcactngacn caagcagact ntttccggtg aatgctgtgc attgnttgga 360
 cggaagaac ccgg 374

<210> 423
 <211> 362
 <212> DNA
 <213> Mus musculus

<400> 423
 gctgtgatgt cacacctgaa cacatgacng gccacaggc tgaggaaccg gaagctgttc 60
 tgtgggcagg nggaatgtat gtancctggn tgctgntgcg ccccatatat aaggggaaac 120
 cnancnagag gattgggnann anggnntngg ctgcagcctg gtgaaagaac tggggccttg 180
 nnaatgcctg cagataggng gcatggccat ggaacaatgc ccatggctgg ctacctcctt 240
 catattgtcc tgaccctga aacccaagga cgggtcagac tcctgctcca nctgaggctg 300
 caggtnttag ggggaaagga atgggggaaa cggacacccc aagtgggagc ctgagccaaa 360
 tc 362

<210> 424
 <211> 375
 <212> DNA
 <213> Mus musculus

<400> 424
 gcctgcaatg aagagcaatn cgtatnttnc tgtgttgctc tottnnttaa ctacnaggaa 60
 ccagtaccat gttaggggct accagctgna caaaagcagg agtangagaa gacgggaaga 120
 cagcaagatg tccaatgatt taccgtgtcc accccaggcc aggtcacat cacacaaggc 180
 aggggtgtag tcacctgctt atgaagccaa cgtgtttgca tgaccatgog tgaggcaaga 240
 cccgattggg tatgactgga ggttgtgtgg atttaaaaaat cttttaaaaat ccttaaaactc 300
 ggttcattca aggtatcctg agggccacag gaataactctc cctctgcttt ctatcgtgaa 360
 gggcttgagg gaggg 375

<210> 425
 <211> 192
 <212> DNA
 <213> Mus musculus

<400> 425
 coatgcacct gagccatctt cccctcttag gctaaggaga tntgtgactt ggtctggttg 60
 gaagtcttgg taggaagaaa acattgagca ggtggtaagg aaaggggcat nctgcactgt 120
 gggggaagac cttaatccta cctcaggaga agacatgatg ggaatgttct gccctgcatg 180
 caccttgggt gc 192

<210> 426
 <211> 331
 <212> DNA
 <213> Mus musculus

<400> 426
 catcaatagc tagctttctc acagtgttag cttggatatcc aaatactttg ctccggacgt 60
 ggtgccttgt gcttcatagc ttaacactca tgacgaatat gcagcttaat tctggttcca 120
 gcagttctat tggaattcag gagactacgg ctcatctgtt ggtttcagat ccaaacccta 180
 ttcattgtgtt agtgaaattt ctttctggtt ccagtcctca tgggacgaat cagcatagcc 240

cacaggtaat aaagtgttta aatattgatg tatatgttca tacctctcag taaacagata 300
 attaaagtag cctttatgac caaaaaaaaa a 331

<210> 427
 <211> 391
 <212> DNA
 <213> Mus musculus

<400> 427
 agacttcctg cttggtgctg accanaogga attcccagag ggaccactg agcaactcat 60
 gaaagggag atcacatttt cgcaggtag gggatgctgt gtggaccct gagggaggtc 120
 ctctgcatca ttaattttctg cccatcctt caacaccctg tgggcatgtc ctgcaacccc 180
 acccccaccc ccataaactc acaaaatagc aagacactga aagggtgtgt tagaactggg 240
 ttgttgtctg tctgggcca cctgagggac ttttcaagcc ttgaggaact gtgacaagaa 300
 atcatgacaa cttaggtggc tatttcagga caggaccact caattaactc aataactata 360
 gaatangggg ctttggagtc tgggactgag g 391

<210> 428
 <211> 115
 <212> DNA
 <213> Mus musculus

<400> 428
 aaacatctgt ggccatcatg gaggtgggtg aggtggagag tcccctaaat ccagctgta 60
 agtctgcaga aattgatgat ctattaaaca ataaagatgt ccactaaaa aaaaa 115

<210> 429
 <211> 115
 <212> DNA
 <213> Mus musculus

<400> 429
 tttgaggtgc tcatgggggn tgatgatgca gaggaggaag atgacctaen ntggacngtg 60
 ccactagagg acatgggaca gcctacagag gaggaggctg agcagtctgg agccc 115

<210> 430
 <211> 400
 <212> DNA
 <213> Mus musculus

<400> 430
 aggatgaacc ttcttccoga cctgttacia gccaaacagc ctcaaagaaa actcttagaa 60
 caccagaggc ttcagtgatg aatgaagacc ctataagcaa cttatgcaga cccccattaa 120
 gaagcccaag acttgattca acataccaaa caaatggaaa tactaaaacg aatgaaagag 180
 gtttgttttt ctctaactct tagaggtttt cattgaggat tcttagcaac aaaatgcaca 240
 agtttttatg gcttcagaat tttactttgt tcattatctc aggtccttag atttttattct 300
 gtgtaaaatt aagtcttatt acttgaatta catgtgagac tgcataataa taaagtactt 360
 ttngtgggt ctgagggatg gaccggggc tgacaaaaaa 400

<210> 431
 <211> 217
 <212> DNA
 <213> Mus musculus

<400> 431
 cccagggtct ctgccactgt agcacnggg nctaactaat gngccacctt gccaatctcn 60
 aaggacatta atgggnttct gattgtgtgc nncctgcagg atcctggatg gaccttgtga 120
 gtgtggtcag ccctctggag gaaaacaact tgctgacagc ctcaggctgc tggatttcca 180

ctgcctctct ataggaaatt ttggttaaaa aaaaaaa

217

<210> 432
<211> 384
<212> DNA
<213> Mus musculus

<400> 432
atgatgaagg ctcattggac atatatgctg ggttggacaa gtgctgtttc tgacagtact 60
gctagatcct gtgtgtcatt cagaaactgt ttagatttgt atgaagagat cctgactgaa 120
gaaggaactg cgaaggaggc aacgtacaat gacttgcaga tagaatatgg gaaatgtcag 180
cagcaaatga aagacctgat gaaaagggtt aaggaaatac agacacagaa cttgaactta 240
anaaatgaaa accagtctct taagaagaat atctcagcac ttatcaaaac tgccagagtg 300
gagataaacc gtacggatga agagataaat catcttcacc aaagattgtc tgagttttcca 360
cattttcnaa ataaccccag gaga 384

<210> 433
<211> 184
<212> DNA
<213> Mus musculus

<400> 433
gactatccat totccgtgtt gatgggcatn gtcattggctc gagctgagcc taccctgaat 60
gaggctgttt tactottccg gaggttgcca ggtccaacaa tgcacgtgct accaagcagg 120
aggcgctggg tgcagggtcca gctatgctgc agaactctgc gcatgcctgg gagagaaaaa 180
aaaa 224

<210> 434
<211> 224
<212> DNA
<213> Mus musculus

<400> 434
gtctccaaaag aaaacagaag aggacatggg attccctgga actgatggac aaatgatgtg 60
agcggctcctg tgggcaatgg aaattgagct cagtcctctg cagancctgcc agcgctatca 120
ccgagccatt cattccttca nnttcttctt tctgggnttn anttnccaaa ngntntttnc 180
tgggtggcttt nagggcntan ttttaaaggg ttgggttggt tcta 224

<210> 435
<211> 405
<212> DNA
<213> Mus musculus

<400> 435
tgctaaatga agccaagaaa gttgataatg gcaacaaagc aacagaagac gactctctctc 60
ctggcaagaa gatgctgcacg tgccagagaa aagggcctat ggctggaggg aaggacgcag 120
acaggacaaa agacaatcga gactctgtga agaccttgct gttaaagggc aaagcccttg 180
tggaccocaga gtgtgcagcc aagggtgggaa aggctcatgt gtattgtgaa ggagatgatg 240
totatgatgt catgctaaat caaaccaatc tccagttcaa caacaacaag tactacctta 300
ttcagctgtt agaagatgat gccagagga acttcagtgt ttggatgagg tggggccgag 360
ttggaaagac ggggcagcac agcttggtga cttgttctgg tgacc 405

<210> 436
<211> 229
<212> DNA
<213> Mus musculus

<400> 436

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| ggcatgaatg | gattgcgctc | anatttacca | aanntgaatg | ccaacatgaa | gactgtgnanc | 60 |
| ctagnccctga | agatnatgat | tngtatggaa | ggggaccccc | anaaccctna | caaactgcac | 120 |
| attgtcacaa | gaatagttaa | gtacataaga | ggcgtccata | ctgggaaaaan | gataccatcc | 180 |
| cgatgcttgg | antacagaan | gcacacagcc | ctcagaatca | caagaacat | | 229 |

<210> 437
 <211> 294
 <212> DNA
 <213> Mus musculus

| | |
|-------------|------------|
| <400> 437 | |
| tggtgggaag | gacagctgtt |
| tgacattagca | aatctaagac |
| tatgtatcag | acagtgggtc |
| cctgtatcgc | atagccatca |
| tgaaggtgac | gaggttgaag |
| | atctctatga |
| | actgttgaaa |
| | cttgtaaagg |
| | aaaa |

<210> 438
 <211> 317
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 438 | |
| gcttgttttg | atccacctct |
| aaggcagccg | acccagtgca |
| ttagctgagg | tatatagctt |
| tagganagan | agagggagtn |
| ccaacccaan | ncnnaatttt |
| cttctacatg | ggaaata |

<210> 439
 <211> 327
 <212> DNA
 <213> Mus musculus

| | |
|-------------|------------|
| <400> 439 | |
| caactgagga | agtggagaag |
| cgggcccggac | ttcccacaaa |
| tcccggggac | cacagattgg |
| ggcctttctca | gctgtgtgtc |
| tagaagcatt | gccaccaaca |
| aaaggggagt | caggaggaaa |

<210> 440
 <211> 418
 <212> DNA
 <213> Mus musculus

| | |
|-------------|------------|
| <400> 440 | |
| acaggtgtct | agtatgtatc |
| tcaaactcac | ggagatctgc |
| agcaagactt | caacttttgc |
| taattctctgt | ttcattgatt |
| cagatcacag | ttctccttga |
| gtattattct | ctctcccaga |
| tgccgtgagt | gctngtctct |

<210> 441

<211> 383
 <212> DNA
 <213> Mus musculus

<400> 441
 aagactgaga tctctgctg gcagattaac taacgacaag gaagactggc cttacctcca 60
 ttoocagtgc tgccctttac aagacctctg caacagactg tagcccaagc ccccttgctg 120
 cctgttttac cccagacatc tttctgggt cacttgaag tcagcagctt gaagatgagc 180
 agcaacctct tagcatgacg accttggacc atgtcattgc caccaccag tcagagtggg 240
 tctccttcag tgaagagcca ttgttcccca cccctttaga ggggggact gaagagcact 300
 tcccaggact gtcactcttc tcanagcggc ctgagagctc ctctggggag aacctatgtcg 360
 tggatgaagg ctcccaggac ctt 383

<210> 442
 <211> 165
 <212> DNA
 <213> Mus musculus

<400> 442
 gattttccaca ggtatacan gagaaaccct gtntcnaaaa accaccgaaa acgatagctg 60
 agancngnng taacactcat cttnaatoca agtacttagg aggtaaagac agaaagttct 120
 tctgctacac agagttcaag gccagcctgg gctacaagaa actca 165

<210> 443
 <211> 298
 <212> DNA
 <213> Mus musculus

<400> 443
 ttgacacact gagcctagca aagctggcta tgaccatccg ccgcttaagc ggagccacct 60
 gctgtgctgc tcctttgatg tgccactacc tgcccgaggc ccaacctgcc tgaggcagaa 120
 cctgttgtct tccaagattt tctggagtta gcaccgaact gcaatottca cgagttccca 180
 ctaaaagact gacctatcta cttcaaagaa actttgcatg gctaggtatg ggctccct 240
 cttctttata aagcgtgttt gctgacatta aaattgaact ttgatcagaa aaaaaaaa 298

<210> 444
 <211> 423
 <212> DNA
 <213> Mus musculus

<400> 444
 agctcctgaa gttctgceat tccccgtggt ctgcagttca ggaagcttct ggaacatgag 60
 gcgcctctgc catggaaaca agatccgcgt cgtcagcttc agatgtgttc ttggaacact 120
 gagttcgctt tggcagctgt ccgaaagtta atcctgtgaa gggacctgaa gcagccctct 180
 gaggaagcct cgcgcacccc tgccgaagaa catcgcatg tgttcattcc ccttccggtg 240
 gctcaggat ccaagcagga aagaagaggg aagaactctg aaggacatga gagggaccca 300
 gcttacagtc cagggttccc agactgccct ttgagaataa aataggaggc cagaatcaaa 360
 gtcttttggg taaaacaccg cgactgacca cacactaacc catttggtg ccttcttttc 420
 caa 423

<210> 445
 <211> 280
 <212> DNA
 <213> Mus musculus

<400> 445
 cttgcagacc cttatcgacg tgggtgctgtc tcaacactaa cttggatctg aatctccctg 60
 agtgctggag tcagttctcc caagcgggtg agttctacct tgcattctct accaggaccg 120

| | |
|---|-----|
| cttagtaata gctgtctgct ggctcagcgt ctagttcatt tcatactttc cagatcactg | 180 |
| tggttttagca gcagccggcg ttgcatcctc gggcagtatg agagcctgtc agcaggggaag | 240 |
| aagttccagt ttggtttctc catatatggc acccaaggtg | 280 |

<210> 446
 <211> 193
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 446 | |
| gcaaagaaca gaagcagacc aacatcgaat ccatgaaaat ggagggctcc cggggccgac | 60 |
| tgcgaggtgg cttgggctgg gagtccagcc tccgtcagcg acccatgcca agactcacct | 120 |
| tccaggcagg ggaccctac tacatcagca aacggaaacg ggatgagtgg ctggcacggt | 180 |
| ggaaaaggga ggc | 193 |

<210> 447
 <211> 242
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 447 | |
| gcaccagacc tgttgctgtc aagatggagc agcacactag taaccctact aaggaaaaag | 60 |
| gngetgnnga aaatcccnng ggatgccttt gagcnctaag antgcttgnn tgccnacctt | 120 |
| gatctttnaa cccatnttgc tonacgnan atnttnatna tcgnaaacct tgctggcttc | 180 |
| cctntcacag nngggttctg ggaggtagag cntgaactgt tcttnccttg gcttatgtcc | 240 |
| gc | 242 |

<210> 448
 <211> 340
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 448 | |
| ggtgtctttc tgtgccgaac atgctngaag aaatgcccta gcacttcatg nnnatangta | 60 |
| gaagagcaac ccnggcccta tgggtggaaa ccntnttgtg ccagttgagc tcatangcta | 120 |
| ctcanagctg agatagnaga ccnttagant aggagcttga ancgctcgnc totggcatga | 180 |
| nngagtcgat gnagntgaac nagnggcttt antatgagag anttgctagn nagtgcgcag | 240 |
| tcattgacat tgatcagttt aaaagactcc aacacntngt caaagagaac anncgngat | 300 |
| ttntacactt tnnnaaagag gaggacgagg ctttaagtag | 340 |

<210> 449
 <211> 375
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 449 | |
| atgacatcat ctgccccatc ttgtggccta atncacgctn taccctcctg agccgtgttt | 60 |
| acnagtccta ttatggnacg ggaccaggcc aatnccttta ccacttacag antgtangaa | 120 |
| ncaactgtca ccnangtggc ttnnnangan gggagggagt agaactgact gtcccttttg | 180 |
| gccctgacaa gtgaaatcac cttn cattgg tttgggctgg aaactcatgg ntggagcaca | 240 |
| ggaagtgggc ttngngtcac tttggcctgt cacttanatg gccttggctc tagcttcaact | 300 |
| cccaaagttc tactggatgt ctgatgcaca aattcanagc tttcgggncc tgaatnccgg | 360 |
| tataacatga cacc | 375 |

<210> 450
 <211> 172
 <212> DNA
 <213> Mus musculus

<400> 450
 tgcatagcacat ggactaagtt gccagangt ttagtacttg ctcccaccgg goncatgctg 60
 nnnatgacat catctgcccc atcttggtggc ctaatccacg ctgtaccctn ctganccgnt 120
 nccaccgncc tattatnngn ngngaccagg ccaatccctt taccacttac ag 172

<210> 451
 <211> 112
 <212> DNA
 <213> Mus musculus

<400> 451
 tttgtcccaa cagatgggat tgaagaaggc ctctcaggca gatttttaact ctgactactc 60
 tggagataag agcgaggcaa cagaaaacta ataaagattt gtatttgact ta 112

<210> 452
 <211> 250
 <212> DNA
 <213> Mus musculus

<400> 452
 gggttggtgca ggaaatatta anaaaatgaa cccaccaact ctctgtgngg ccgaaccaca 60
 ctcccgcgct cctgccagca cgcggcaact ctctccagct agcccctgca gcactctggct 120
 cgcttgncct gggagccact agttccctct ctgctataat cccctgtaat tggatgatccc 180
 atattccagt aaccaaatgg aaccaccaac ctcgagggtg catattacaa tacacagtaa 240
 cccggtaaaa 250

<210> 453
 <211> 615
 <212> DNA
 <213> Mus musculus

<400> 453
 gtaattgttg atcgctctct acatnccttg gngggtcgan ccggaanage nctttcacng 60
 gaagtncctt ngaaanaccg gtacccttna attgnggctt nggcctccgc aaaccnaaga 120
 cctttttact ttgtnacggc aaaagggttn cggggtccaa ancanctant agatttnccc 180
 cggtaacacg tnggcantca atatttgga atcgntctt ttnaaaattg cntngtcttt 240
 ttaaaccggc attgnggttn gacnaaccc cttaacnttt taatcnggcc ttntacatta 300
 accccgggnt gggtnggcct tccaaacccc ttgggcgatt tcnaancctt tggggcncct 360
 ccttggttctn gggaaaactt ggcttgccac taatttaa at cgggcacgcc tggctttntc 420
 ctcatcngcc tccatagtng ataagcctnc aagagttaca accagagtgg cctggaagcc 480
 ggaacgatct tgggttcttg ccagcttatt ntgctagcga gcttgnggnt ggcctacaag 540
 ataaentgna taaccacngn ttcagaggca tntgcctgna tnaggccaca ggcctntgaa 600
 ggaccttggc catgg 615

<210> 454
 <211> 343
 <212> DNA
 <213> Mus musculus

<400> 454
 accatccaca catgattgaa tcattaataa tctacatgat tactnctcgt ctgcaaaatt 60
 aagcagttct gagaagtcaa gcaactcact gtcttctcct ttcactctcc gtttctgat 120
 cttaccagtg catcgggtca ggtggctata tatgcttagc agaactgcag gacactggac 180
 atactatgga ggcctcagcc tctttctctc ctgctccctt gctgtggagt aacttcatcc 240
 atcacgctgt cctagtggct tcttcagatt atcaaagttc caataatcgn ctctagggga 300
 catgtctcta aatnccattc agaagtttag cataattttt agt 343

<210> 455

<211> 266
 <212> DNA
 <213> Mus musculus

<400> 455
 ctctgatccc gcttgctggt cctactgaca cctgagccgc ggtggcgatg ctgctgaggc 60
 ccttccagcc cagcagtgca cctacttggg aggagtgtct tttancctca aggnntnctca 120
 agtgcangaa gagagtgatc tagaaatgta attgaaaata gaatagcatg aaagatatta 180
 atgtctttga atattttattc tcagtgtatt ttaatatatt gataataatt aaaggtctgt 240
 gagtttaacc agtgttttag gatata 266

<210> 456
 <211> 412
 <212> DNA
 <213> Mus musculus

<400> 456
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 gtgatgcaca gcagcttgag tgggactgct ccgctgtcct catgagagaa cgctttttct 120
 gaagatggga ggtggctaata gaaagaagga attgtgttct cggatgatgc tggagagat 180
 gcgtgacgtt ggaagatgat tacgaaatac aggaaaggaa tgaaatcaaa ggaatgtttt 240
 tgtaagagta acacttacag aaatattcat taatttgaag atttatataa ggcctgggtga 300
 cctccgttaa ttctctgggac ccacagtgtg gaagaagaga cctgactcct gaaagtgtgc 360
 ttctgaaccac atatacacaa tatgtaaata aatgtaatta aaaaaaatca aa 412

<210> 457
 <211> 329
 <212> DNA
 <213> Mus musculus

<400> 457
 tcaatgctag aaggtgaagg aaagccactc aaccagact cagtcagggg aacctctctg 60
 gaaccatact tctgaaaacc tggatgccaa tgacattttt tgtggagata agattcaagt 120
 acagaaaata aaagtgcata ggctgttga aataccagct ctactaaaag cagcacttaa 180
 ttctaagaaa tggggctttc ttatatgctt tacacatttt ctattatcaa agttttatat 240
 gttgtctcta taacttctgt gattgttgaa tttgtaattn ttatacctaa aacttaaaat 300
 aaattcacac aatttctgta aaaaaaaaa 329

<210> 458
 <211> 218
 <212> DNA
 <213> Mus musculus

<400> 458
 caagccatct ctccagcctg agagtgcgtg ttcttatcat gagaagacaa acagcagtgg 60
 agttggcaag ctgcctcagt gggattctga tgcttcatga catgccatca tgtagagcaa 120
 taatgaacaa tggcctattt tggactagcc gacaaccctc agaaatgata ccgtaataac 180
 ctaccgcagg gaagctgagc tcgagtcttc atgactat 218

<210> 459
 <211> 432
 <212> DNA
 <213> Mus musculus

<400> 459
 ggacaagttg ctctctgaag gatccatgtg tattgttcaa aacacaagct taaaaagagt 60
 gcctgcagac agatggccca catcttctgt tatggcacc cgaagcgcg ccaaccaaac 120
 cacaaagtcg tgctggacca ttcacatggc ttagcagcct tccgaggccg aggctgcaca 180

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| gttgagtcc | tccactgg | gattgcagg | gagcacaaca | taccttggct | gctgtaccta | 240 |
| ccaggcaagg | gccactgtgt | gacagggtgag | atctacnagg | agnacganca | catgntgngt | 300 |
| ttcctggatg | actttgaana | ctgncccagn | atgnnccagc | gcacanncc | gnagggtgcat | 360 |
| gngctngagt | gngagggtga | cagtgcacct | ggtgacaagt | gttgagntct | ttgngtacac | 420 |
| tacagcctcc | ta | | | | | 432 |

<210> 460
 <211> 340
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 460 | | | | | | |
| ctgaggccct | tttagctacc | cattactgga | ccagaaagat | gacatctatc | atcaagttaa | 60 |
| ccaccctctc | tggggttcaa | gaagagtccg | ctctttgcta | tcttctccag | gttgatgagt | 120 |
| ttagggtttt | gttggactgt | ggctgggatg | aacacttctc | tgtggacatt | attgattccc | 180 |
| tgaggaagca | tgttcaccag | atcgatgcag | tgtcctgtc | tcattctgat | ccactccacc | 240 |
| tcggtgccct | cccattcgcc | gtggggaagc | tgggtctaaa | ctgtgccatc | tatgcaacaa | 300 |
| ttcctgtgta | taaaatgggc | cagatgttca | tgtacgaact | | | 340 |

<210> 461
 <211> 134
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 461 | | | | | | |
| caggatttct | ctgcctctgc | cnaccttngg | ttcctgncc | ctnagagnaa | ctancctgga | 60 |
| gncacttctc | tggtgacacc | nactcaaana | gaacacttct | gattaaaacn | tgtggaaccc | 120 |
| acagatggac | aggt | | | | | 134 |

<210> 462
 <211> 390
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 462 | | | | | | |
| gactgagctt | gcccggggtg | caaattggaag | atttaagtcc | cgttctggac | acaaaatcaa | 60 |
| ctctgtgagt | ggtgactgtc | agctgccggc | ttcaccaatg | ccttctcaaa | gcatgtctgt | 120 |
| ggaagaaaca | gcaagaaaac | tgctgtctaa | cttaaggga | attcttctat | actttgttcc | 180 |
| cgagtttcan | ctatcatcan | aatttgagng | cacatctgng | gaagaactca | taacaaatcc | 240 |
| tgagctggag | cgatgcccac | agaatatana | cgaaangcta | aaaacgtgtt | ncaaccagat | 300 |
| ccagaatata | tacatggctc | agtatganaa | aagactcnng | aggaaaatgc | agtcattgt | 360 |
| ctatgangca | acacagaagg | ggcttactca | | | | 390 |

<210> 463
 <211> 149
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 463 | | | | | | |
| gacgtgtcaa | aaagtggaga | angnnatgc | cttcaaagcc | caccgtgetn | agctgnccgn | 60 |
| tantagctct | tacttccggg | acctcttcaa | cagcagccgc | agtgtctgtg | tagaactgcc | 120 |
| ggcgcgtgtg | cagccacagt | cattccagc | | | | 149 |

<210> 464
 <211> 128
 <212> DNA
 <213> Mus musculus

<400> 464
gcccttctcg aagccacaaa aatctggaac ctggtgtcct ggccatgtgc tgaatgcacg 60
cacagcacag ctctggtatc tgttttaaat tatccattaa aataagtaca gtcttggaag 120
aaaaaaa 128

<210> 465
<211> 108
<212> DNA
<213> Mus musculus

<400> 465
gcccatcttg cacagtccgt agaccatgac ttttacgtgg atatngaccg caaagaggag 60
agcttctncc agnccnaggc ctccntngat gctctgtgta cacacctg 108

<210> 466
<211> 197
<212> DNA
<213> Mus musculus

<400> 466
ttatacaacg ccgtgactgg naaaacccctg tacgttacct aacanaatga gcttgccaac 60
acatanccnt ttngccagct gncgtaatat cgaataggct gaagaaaatt ngancccata 120
gagggntgag ccanttttgg ggccttccctg ttgcggggcc agcacaccat gaccactggc 180
cgcagggggc cgaactg 197

<210> 467
<211> 163
<212> DNA
<213> Mus musculus

<400> 467
ttgatgatac aaggggaagt aataatgaca actaccaagg agatttggag ccagacttag 60
agacacctgt ttgttcttcc tattatgaaa atagcccggg ggagcccagc tgtcatgatg 120
acaattccca ggaagatgaa gggtttatgg gcatgtccca tgt 163

<210> 468
<211> 324
<212> DNA
<213> Mus musculus

<400> 468
gatgaaaaag catttgtaac tatgaattga ctacagtttt cttcttcctc ctttccctgna 60
attctgtntc tttccttttg ttcccttccct gcttgagaga ctcaaagcac ccgngactct 120
gntncccat ttacccctt ttgaatttgc actaagtcna ttgactggc ttggagtcoc 180
ggagatagct ttgagtctct ccgtatgaat gtatacagcg agtgtgtaaa cctctttggc 240
aatgctgccc cagtaccac ctgtcgtcca tctcgtctg agggcaactg ggtgtggccg 300
ngtgccttgg gcctcgcctt ccct 324

<210> 469
<211> 174
<212> DNA
<213> Mus musculus

<400> 469
ggccctcata atcgagaata togatgagga cttcagggac cagaggaagc cgggaaaaga 60
ggcccatggc gtgcagccca gccctgaccg ccagctggct gaggtcgtgc cctgctgggc 120
tgccctccaa tgtgcctcac gcaataaaga attctccctc tgcaaaaaaa aaaa 174

<210> 470
 <211> 109
 <212> DNA
 <213> Mus musculus

<400> 470
 cggggaagagc acacccagcc caaacctaga tttggatctc gtccggaagc agttatccag 60
 agccgggtatc ctgcgtcaga gaacagccac cgattttaaa gcccaggcc 109

<210> 471
 <211> 416
 <212> DNA
 <213> Mus musculus

<400> 471
 tgagataaaa atctggacaa tgccgcagaa gcagctgagc agttttaaatt aatccaagct 60
 gcatatgacg tcttaagtga ccttcaggaa agagcgtggt acgataacca ccgagaggcc 120
 ttactttaaag gagggctcga tggggaatat caagatgaca gcttagatct gcttcattat 180
 ttcacggtta cctgttatct tgggttatggg gacgatgaaa ggggggttcta tgcagtgtat 240
 cgtgttgtct ttgagctgat tgcaaaagaa gaactggagt gtatgtcaga gggagatgtt 300
 gaggattttc caaccttcgg cgactccagc agcgactatg acacgggtgt ccaccctttc 360
 tacgctcact ggcagaattt tctgcacaca aaaagaaatt ttcttggaag gaaagt 416

<210> 472
 <211> 180
 <212> DNA
 <213> Mus musculus

<400> 472
 taatctcaca gactattcta aacttntang ngcatttatt gcnngncgaaa agcaanaggg 60
 agtanctgcg gaagtgnag aagactncaa catcaaagng attatctgca ctctacttgg 120
 agtgaaaggg acacanaggg accatgaagc gntncttgtc cagattctct caaaatctca 180

<210> 473
 <211> 405
 <212> DNA
 <213> Mus musculus

<400> 473
 gttaacattt ctgagctgtg ttcccagat gcttgattga cccttgaagt tatgtggaca 60
 gagattctca cgtgtgtcta ttttaaccac cggaccagc attgtatctt aatgttcaca 120
 taagtcagaa ctttcataag aaagagaatg ggagtctggt taaacaaaga tgactttatc 180
 agagacttga agaggatcag tctctgtctt ctgatactgt acgtggctcg tgtggtgggc 240
 acagatcaga attttttacag tttacttgga gtgtcgaaaa ctgcaagcag tagagaaata 300
 agacaagcct ttaagaaatt agcactgaag ttacatcctg ataaaaacc gaataaccca 360
 aatgcacatg gnganttttt aaaaatnaat tggaccttat gaggc 405

<210> 474
 <211> 255
 <212> DNA
 <213> Mus musculus

<400> 474
 gaaatcattt caaaaaattt cccaatcaga ttctgaggag tgggaatctt tgaaagactt 60
 gagaagtcag cttgaacatt taagatctga gcaactcatt ctaagtaaac ttactggctt 120
 caatataaga aactattcca agatggaaga cattgtaaac actgaagaga cagaaaaaga 180
 tacaaagaaa gttctacaga aacacagatn atcaggaaat tgcaacntgg cgacnttnca 240
 actggaattt gaggg 255

<210> 475
 <211> 495
 <212> DNA
 <213> Mus musculus

<400> 475
 acctctcccc agaggagcag tggagggtn g aacatgctcg aatgcatgcc aaacatcgtg 60
 gncacnaagc catgcacgct gaaatgggcc tcacccctcat tgctaccttg gtggtggccc 120
 agctgctcct ggtacagtgn aaacagangc atccccgttc ttacaatatg gngaccctct 180
 ttcanatgtg ggttggtccc ctctatttca cagtgaagct gcattgggtg aggttcttgg 240
 ngatctggat cttcttctnt gctgtcacag ctttgtcac cttccgagcc acaaggaagc 300
 ctctagtaca gacaacccca aggttggggn ataaatggtn tctgctgac tataaatca 360
 gctatgccac tggcattgat ggctacatgg ctgncaatgt taccctcttt ggtcttaact 420
 tattattcaa gattaaacca gaagatgcaa tggactttgg cattnctctt ctnttctatg 480
 gcctctacta tggag 495

<210> 476
 <211> 216
 <212> DNA
 <213> Mus musculus

<400> 476
 cggttttctca gcgactatgg cctgcagtgg gtggggcagc ccatggacca ggagaactca 60
 naggaaaaga cagtctctga aaatgatgag cgagactgga tgaaggccaa gaagttttgg 120
 aagccaggtn aagcctntgc cctggccccc acctaccanc tncctgaggg cctgccantc 180
 ttccanaggc ccattgnttg aaccctgac atccca 216

<210> 477
 <211> 222
 <212> DNA
 <213> Mus musculus

<400> 477
 ggagcccaaa gtccctgccct ntnaggaccc agctactttg cctncatcta cctctnnctt 60
 ggtgattccc tccctgcctc acatctgggg cccattagca cctcttttcc tgggtgggtg 120
 aaagtgaag aagatgggag gcatacctgg tgctcaacac gcagtaggcc ttcaataaaa 180
 gccacttgca ttagcatttt atacttcact taaaaaaaa aa 222

<210> 478
 <211> 290
 <212> DNA
 <213> Mus musculus

<400> 478
 gcccaacaca gagatacttt cattgaagaa cgctatggaa aatataacat cagtgaccct 60
 ctaatggctc ttcagagaga ttttgaaaca ctgaaggaga aaaatgatag tgagaagcag 120
 ccagtgtgca caaaccctct ctctgtctct aaggcgggtga tgaagcagtg caagaacatg 180
 caggagcgca tgctgtccca gctggccgca gccgagagca ggcaccgcaa ggtgatcctt 240
 cgacctttga gaaaaaagga cagagncttg cccaggacac tgttgaagga 290

<210> 479
 <211> 310
 <212> DNA
 <213> Mus musculus

<400> 479
 gtgctcctcc cagacaagtg ctccnccgg taaagttatt cttcccctgc agattaatct 60
 ttctccactc gcctaaccnt gngggagaag ggggtctaaa gtctttctgt ctactgtccc 120

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tctgactcag | gtgcctcagt | tacgctccaa | agtggatgaat | gggttaggat | ttctattccg | 180 |
| tangaggctn | ttgccttttt | ggnggnttgn | tnnctnatat | tnataatccn | atttggaag | 240 |
| ctgacacaag | aangttattg | tgagtttgag | gccagcctgn | gctacagaat | aagaaccttt | 300 |
| ctcatataga | | | | | | 310 |

<210> 480
 <211> 373
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 480 | | | | | | |
| atcaattaaa | agaagaatga | gctgtaatcc | ctgaagataa | aactggacag | cttttttcatt | 60 |
| tagtatatgt | atatttttaa | ttataaaaagt | tcaggtggag | tcttcagttt | atcagtactg | 120 |
| agcagcagat | caccattttc | agggacgata | cctgcctctt | cttttttggg | gttcttggca | 180 |
| aaaattaaac | ccattgcgtc | attgtaannn | angnangggg | gtaaattcag | gatacaagtc | 240 |
| atggaataaa | cttcccacat | gctttgctta | aaaaacaaaa | ccaaccaaac | tcaaccatta | 300 |
| caccgaactt | tggacttctt | gaattgagct | ttattttaat | ataaatacct | gaagtgattt | 360 |
| tctcagaaaa | aaa | | | | | 373 |

<210> 481
 <211> 421
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 481 | | | | | | |
| ggctgtgatc | tctctctcgt | agcgcctccg | gttctcgggg | tccgtgatct | ccgcggcgta | 60 |
| ctcggagaac | attcggcgga | actctgggtc | ctgaaaggcg | gaggtgaacc | gotgcacctc | 120 |
| ctctctgctc | agatccaagt | cctccagcgc | taaggaggcc | gccgccttgg | ccatggtgac | 180 |
| ccacacggcc | caatgcccg | acccagtga | ggatcagggt | gaattgagtg | tctaggatgc | 240 |
| gcttcagagt | ctggctcatg | gagaactgac | cagtccaaga | aggccttctc | ctgttacatt | 300 |
| ttaagtagac | tgtccaaga | ttgggatgac | acctcatctc | cgttatgcca | tctctttcac | 360 |
| atgctaaata | tatgtactca | actaccatgg | tgactctgag | ttcaaggcca | gcctgggtctg | 420 |
| c | | | | | | 421 |

<210> 482
 <211> 428
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|-----|
| <400> 482 | | | | | | |
| ttatcttcac | ctgttgtgtg | aagcatagca | cctttcaagc | caactgtagaa | atggacaaaag | 60 |
| aagaaaggaa | gactatcaac | aagggtcaag | aagatgaaat | ggagatacat | ggctataact | 120 |
| tatgcgcgtg | gaagcttgcc | atgggtttttg | taggagtgat | ttgtactggg | ggttttctoc | 180 |
| tctctctcct | ctactggctg | cctgagtggc | gagtgaagc | cacatgtgtt | agagctgcag | 240 |
| ttaaagacag | tgaagtgggtg | cttctcagga | caactgatga | atttagagta | tggttttgtg | 300 |
| caaaaattca | ctttcttctc | gtggagaatc | aaccaaattt | gaatgcaaaa | tgtttagtta | 360 |
| atgaggtttc | taatggccat | gctgttcctc | tgactgaaga | aaatagatgc | gagatgaata | 420 |
| aatctcac | | | | | | 428 |

<210> 483
 <211> 324
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 483 | | | | | | |
| tggttcccta | aggcagccgt | ttcttgccgg | ccctgggagt | ctgctatggc | gttccctcac | 60 |
| ctacaacagc | ctagtttctc | tctgtgtacc | cctctggaga | cagctgggtg | gaccgggtgac | 120 |
| ctgcaccatc | agattttatt | ttctaagagg | gctcttgcaa | tccctacttg | tttagagggtg | 180 |

| | |
|---|-----|
| gtcagctggc ccaagtcttc agattgaacg actagcatct cctgatctct atttggccag | 240 |
| aggccacttc tccatggagt cgggtgtgtg cccacatccc aagactttta ataaatctcc | 300 |
| ttggtttctg ttcaaaaaaa aaaa | 324 |

<210> 484
 <211> 255
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 484 | |
| gccctgagag ctgaagttgg gagaactgct tcatgataaa gctgtttggt ctttttgaag | 60 |
| ccatgtctgc tattgaaatg atggatccta agatggatgc cggatatgac gggaaccaag | 120 |
| tgaatagaaa agttctcaat ttgaaacaag ctatcaagga tggcaccatt aaaattaaag | 180 |
| acctcagcct gcctgaactg ataggaataa tggacacctg tttctgctgt ttggttaagaa | 240 |
| ataaaataag actgt | 255 |

<210> 485
 <211> 557
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 485 | |
| atcccaagat ggctgggcnt aaacttgctc taanaaccat tgattggnta tcttttgngg | 60 |
| aggatcatgcc ccnaaaccag aaggcaattg gaaatgccct ganntcctgg aatgagacct | 120 |
| tccacgccag gttgnctagt ctgnctgana aaccacctgc gattgactgg gcttactaca | 180 |
| gggccaatgt ggccaagcct ggcttgngng atgattntga aaagaagtat aatgccctga | 240 |
| anattcctgt gcctgaggat aaatacacag ncctggngga ccaggaggan aangangatg | 300 |
| tnaanagctg tgctgagttt gagtctggat cccagctcan gatccangat tatgagaanc | 360 |
| agntggagaa natgacgaac ataattccct ttgaccanac gaccnttgat gacttgaatg | 420 |
| agatcttccc agaaaccaag ctggacaaaa agaagtacct gtactggccc caccagccca | 480 |
| tcgagaacct gtgaagcagc ctgggacgga gcccggccg acatgaaata aaacatttaa | 540 |
| atagtgaata aaaaaaa | 557 |

<210> 486
 <211> 247
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 486 | |
| gtcccagccc agatccaagg aacgagcatg cccagaatac ctgagctctg agcgtagtgc | 60 |
| ggcccagcag cgtgcgtcgg ttgaaaagct cggctccaac ccagcggact tcagaagcag | 120 |
| ccggtggcgc agttcccgc cccctcagcc ctgtatcnna cccanancct gangctgcnn | 180 |
| tnttaccnnc agggntctgt gngcannncn ttantnccac tttcatactg gaatgtgcag | 240 |
| gcagaaa | 247 |

<210> 487
 <211> 234
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 487 | |
| aagaggttgg gaggatcatg tatggctatg aaaagactta cctgagagat gagcnccttc | 60 |
| tgcagcgcen tctctnntg caggcganga tganagcagt tcttctggat nggctgatgg | 120 |
| aggtgngcga agtctatnng ctngcagag agacgatcta ctngggacag gacntcnttg | 180 |
| atcgttncat ggctcacanc agaatatcat aaaaacactt ttacagctta aaaa | 234 |

<210> 488
 <211> 489

<212> DNA
<213> Mus musculus

<400> 488
aagcctgacc agacttggaa ctgaagcacc ttaaggacaa aagaaagact tgetgagctc 60
gctcacagac cttctagagc agcgtctggc tcatggatct ggagattatg gacagaagat 120
aatgtagatg ttataaccag gccagcgtcc tgtggtaaag ggtgtcttta gatcactggt 180
tcgtcggatg aggtaaatga catgaagaac atctttatag gcaggggatg agaactctgag 240
atgaagaaaa gaggctcccc tgatggacca ttctaagcta ctgtcagaag caggatccat 300
agaacttaag gacatgattg caccaattat cagacattgg ccctcttaag gtcattgggtg 360
gatccctttta agaatttttg gcttttctng ctggnccttt cataaaangg naaccctcaa 420
ttttttaagc cttcctatct ggaaggattt ttaaaaancc atctncaata agtaaatctt 480
cctcatctt 489

<210> 489
<211> 390
<212> DNA
<213> Mus musculus

<400> 489
atgcgagcta cactctctgc tgcttctgct gatgtttcct gcaggaagaa accgttggag 60
tttgatgaca atattgatgc caagtgtcca gtccctaaaac gactgagaga tgagcctgag 120
cccggaccac tccccagcct gctgcccccc agcccacctc ccgcctcaga cttgtcacct 180
gctgtggccc ctgcaactcg actggggcct tatatccttt tggaaacgaga gcaaggcagc 240
tgcagctatc gagccctgca ctgccccaca ggacacagat acacctgcaa ggtgtacccc 300
gccagcgagg ccagggcggt gctggcacct tatgcccggc tgccctacaca ccagcattgt 360
ggccccgttc cacagaggtc ctgctgggct 489

<210> 490
<211> 900
<212> DNA
<213> Mus musculus

<400> 490
gcttctggtc tgtggcaggc aagagaattc tgcccctgag gcattggccg aagacagaac 60
tagctgagtg cttcagtcct cagaagtctt tcaggattca gctgaggtgg gcctcagtcg 120
gcagacaaga tgctcctggc tctgggactc acgctggtgc tctatgcaag cctccaggct 180
gaggaaaact ctttcacat caacagcatc catatggaaa gcctgccatc atgggaggtg 240
atgaatgggc agcaactgac cctggagtg cttgtggaca tcagcaccac ctgaaaaagc 300
aggtctcagc accgggtgct gttctataag gacgatgcga tgggtataaa cgtcacctcc 360
agggagcaca ccgagagcta cgtcattcct caagctcggg tcttcactc cgggaagtac 420
aaatgcacag tgatgctgaa caacaaggaa aaaaccagca ttgagtacga ggtgaagggtg 480
catggtgagt ccgcaagcag aatagcaggt tgatgatgat gctcacgttg gtgacgctgg 540
tcacgccgct catggtgacg ccagaaaacc gncagtgaac ctggnttcct tctccgctaa 600
ctncaccttt cctggtcact acctggcatc ctgacctgaa actgtaggct ttaaaaactt 660
cccgtctgtg tgnaanacag gaattttctt cctttgggga atgaagtccc tgggcctttg 720
ggnaaccacc cctttccttn aatcccttcc cttaaagtaa attnggactt accatttttt 780
ccccaaaaac ccccnctttt tttttttgna aacaggnntt tcccctttta aaagccccc 840
gggnccaang ggccttttta aaanncttn centtggggg ncaattggcc ccccttgggg 900

<210> 491
<211> 263
<212> DNA
<213> Mus musculus

<400> 491
tgtgctggag aagagaaacg agttggtaca cgcacagtgt ttgttggcaa tcatcccatt 60
tctggaacag aaccttatat tgcgcaaaaga ttttgtgata atagaatagt ctcatctaag 120

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tatacacttt | ggaatttct | ccctaagaat | ttgtttgaac | agtttagaag | aattgcgaat | 180 |
| ttttatttcc | tcatcatttt | ccttgtacag | gtcacagtag | acacaccaac | cagcccagtt | 240 |
| accagtggac | ttccactttt | ttt | | | | 263 |

<210> 492
 <211> 182
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 492 | | | | | | |
| gtggcacaag | acttgaaatt | gctttgaagg | tgaggacatc | ccctcccca | ccgccagcca | 60 |
| ccctctctct | tacgtctgta | ccttgaaaagc | tgctgctgct | gcttacagaa | ttatatTTTT | 120 |
| ttcttttgaa | gagttttaag | aagttgtaac | tttttgtgtc | ttgtcatgta | aaaaataaat | 180 |
| aa | | | | | | 182 |

<210> 493
 <211> 868
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 493 | | | | | | |
| gaggaggact | tacataccaa | gcggctctcc | atgcctccgg | tgcgctctgg | gcactctctc | 60 |
| ccgcactttg | ccaaagtcgt | tttttctgtc | gogatgtgtt | tctgcgaaca | ctggggcatc | 120 |
| ctctaggatc | caccagcccc | cacttttggg | tctcaggtgc | agtcaactgg | gagtctgtct | 180 |
| tcccttcttt | gaccacttgc | gcccctcctg | aacacggctc | cctgtcttca | atccaaatcc | 240 |
| aaagaacaga | gtatagccag | agttactcat | tgaatgacac | ctaaaactta | gaccgctgtc | 300 |
| cccagtggac | cccagagttg | ccaccagggg | ccgttttgca | ttcacgcaca | cgcttcaatg | 360 |
| tacagagtcg | ctgtgtgttc | aggcacctga | ctctcaactc | atccatcacc | tctaccagga | 420 |
| aagtctttct | gccataagga | aataaagaaa | ctatgggtcca | tttgtagtaa | gaggcgctgt | 480 |
| taaaagctcat | cggtggatta | caggaaaatta | ggaggattgg | goccttggtg | tccctagccg | 540 |
| gcagcagggt | ctttcttgcc | taacatttat | taatttatca | ttgggttgaa | acgttgcagc | 600 |
| tgtaacatg | actaacataa | aaggagagga | tctgactcca | ggatatatgt | caaagagctt | 660 |
| tgcattctgc | accgataggg | anaagggaan | ttggagaaaa | gggtaaatgc | ctataagaat | 720 |
| ggaatnctcc | tggannaact | cantaagnng | ggaattttgg | gaacnaggga | aaatgccgaa | 780 |
| nggggtnaatt | aaaacctaatt | tttatacca | aactgcattng | ancagccggt | ttttgccttt | 840 |
| tttttttaggt | tggacaccca | acttttcc | | | | 868 |

<210> 494
 <211> 118
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 494 | | | | | | |
| ggggagctcc | ttgtatttgt | ttcccaggga | gtgattagct | cttaaggagt | gaaatatgga | 60 |
| gttgtagcag | aacactaaac | gatgtaaaat | aaatgactga | agagtggaaa | aaaaaaaa | 118 |

<210> 495
 <211> 276
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 495 | | | | | | |
| ctgacaggta | ccgcctgaag | natggttgga | agnatatata | gtntgggcna | gggctgaagc | 60 |
| anacngannc | tctaaacaat | cagncctngg | agctggaacn | cctgattgac | tengcctgaa | 120 |
| cgaaagatgg | actggtangc | atggccatcg | ttggtggcat | ggccctgggc | gtggnatgcc | 180 |
| tggctggact | cattgnactg | gctgtatnca | agtccanac | ctgaangnag | nctcacctgc | 240 |
| tctctgcccc | gnacgcctat | gacctggggg | acactg | | | 276 |

<210> 496
 <211> 391
 <212> DNA
 <213> Mus musculus

<400> 496
 tctgactatc cggaactaag gttcaangct accgatggag cgacttcccc acagcagccc 60
 tgetgccttc ctgtcagngc tgncttgccg agtgagacca ggctgaggaa ggnacacagac 120
 agctgaatct ggaccagcga cacttcccag gctcctcctg ctgggcccag gccccgacta 180
 ccctgccctc tctcaccact tccgccatgc tgcagagcca ccacaagcta aactgncagc 240
 tgtgggcgct ctcaagggtg gcatttccct tttcttccaa ccgtggcacc caccatgaag 300
 ccaggacagc acagggatac ccccaaanaa ttctnggcc cccanttttt tgaaaaanatt 360
 ttanaggttt taagcctttg goccaccaaa a 391

<210> 497
 <211> 441
 <212> DNA
 <213> Mus musculus

<400> 497
 actgagggct cctgatcacc cagaccagct cacctatgga gcagaacaaa gagacctgga 60
 agatggagag acaggaggca gtagctaagg atccaggacc acaagccagc tattcattat 120
 tcttcaaaga gaaaatcaaa gaagagaccc agaaagaaat ggctggttct ccattaatca 180
 tgtcacagcg tctgttgaca tttggggatg tggctgtgga attccccag gaggagtggg 240
 aatgcctgga ctctgctcag agggctttgt acattgatgt gatgttgag aattacagta 300
 acctggtctc tgttgaaaag aaacagaccc tttcatggtt ttcaagtaca cctttatctt 360
 aaaaggaaat gggttgcccc gccgtggtgg cgcacacctt taatngcana ggcaggtgga 420
 ttttttgagg gccccctggg c 441

<210> 498
 <211> 101
 <212> DNA
 <213> Mus musculus

<400> 498
 atgcctcccc gattctgaca gaaaagcagg caaacagct cctgaggtcc aggcgacagg 60
 acaggcccaa caaacctgga ttcccgagc agcccatgcg g 101

<210> 499
 <211> 724
 <212> DNA
 <213> Mus musculus

<400> 499
 ccattgctgac ttattaacag accttagagg ccctgcgtgc ctccaaggag ccctgggtga 60
 tccaggtgct gagacgcagc ccccgctctgc ggggggacag ctccctgccat gaccttcagc 120
 tgggtggacag tggcactcag accgacatca ccttcgagca tatcatggcg ctgggcaagc 180
 tgcgcccgcg caccacaccc atgggcatct tggagccgta cgtcctccct cctactttg 240
 ccattgaatc tgggtgggag aggatactgc aggcaccaga tgctaaactt tctaactatt 300
 ttgaagtttc tgtagtgtgt cctttgtcct gacacctatg tatatgttca aaatgttgat 360
 ctccaactgc agattttgaa aagccttggt attggtcaag cggggagtgt gttcagtggc 420
 tccttctgag gacgagacgc ggtgttacat gagtactgag agttgagtag aactctctgg 480
 atgtgttcag atagtggaaat tgctacatto tctgatgtaa gtaagtattt acagatgtta 540
 aatgggagta tttttatttt atgtacatac tctacaacta tgggtctttt tggtaacaagc 600
 tatgcaactg aaatgcangc cttcttttca aaaactggct aaaattttct taatcaagaa 660
 tatttcaaatt ggnatttatg angnggaaac aattattggn cnctaacata tttagaagct 720
 aaac 724

<210> 500
 <211> 373
 <212> DNA
 <213> Mus musculus

<400> 500
 gtcacatagc acgacatacg atagcacgca tncntatgtg aagctaggtg tagtngatac 60
 tttcacagtc acaaattgcgc nccctagcga gcgtagnngna accggcacag agaacagaga 120
 acatacacia canaaggact ctcnngnatt tccactgcct tgcngtccac ntggttcact 180
 agccagacgc ccacangaga ctgtcngacc acagagagcn cacacgtaga cgcggacgcc 240
 gtggncaaga gtctctgcat cccacggga cggatggcgg cggctccaca aggtgcgcgt 300
 gcaccgaggc gcaggtggac cctctcacat ttcacaggnc tgccggncag aatgncctc 360
 ataaatgtgt gat 373

<210> 501
 <211> 424
 <212> DNA
 <213> Mus musculus

<400> 501
 gactgagctt taaaatacaa aagctggggt cccacatgc tgcacatcc aaggctggac 60
 agtacacaga acacaaatct caaatcagaa gtcctctgaa acagccgtcc tgatgggatg 120
 gagactcatg ctgagaagat ctgaagatga catacagcat cgcctgtca ggcagccagc 180
 taccagaagc tagctctcga agcccagcaa gaagttctct gtggctttgg gcatctgtgc 240
 ccagggaagg accatgcgtt gtgatgtctg ctgccagcag acaagcatct aagagactgt 300
 gaccctgatt actagctatc aaattgtgtt ttttgaaaag ttggcctgtg aatcaggcga 360
 ttctctgtgt gacttgcaaa gaggntcctc taaataaaag cttatanggt tttaaaaaaa 420
 aaaa 424

<210> 502
 <211> 114
 <212> DNA
 <213> Mus musculus

<400> 502
 ccagtgtgca tgcttcantc atgttcacga aatggaggga cagncaggac gaggactaca 60
 accngatatg ctgatatcat ttagggaggn cangtcttag agcacttaaa gctg 114

<210> 503
 <211> 114
 <212> DNA
 <213> Mus musculus

<400> 503
 tctcctctaa gccatgacct catccttaac ctgactcagg acgggatcac actactgttt 60
 gatgctttca atcaagtcag aggcatttaa taaaattatc tacacaaaaa aaaa 114

<210> 504
 <211> 249
 <212> DNA
 <213> Mus musculus

<400> 504
 aatgctggca aaggatgaac tggtagcat acttcagcgc tgtattgagg ttttagattc 60
 ctctactgaa aagcagcttg gcaacacaac acagaaaata aaggatttcc tgacccagtt 120
 tcagaacctc gatgntnana nnnaggaaga ngatgnntcc ngntnatanc cnacggngnt 180
 gctgaagaca aacccacntt ntatctnctt aagacttntt actagtgatg naacttctga 240
 ggactacta 249

<210> 505
 <211> 122
 <212> DNA
 <213> Mus musculus

<400> 505
 gacgtctggg gagctcctgc nttaggttag atctganggt tcccagactg ccttttgaga 60
 ataaaaatggg aggccagaac caaagtcttt tgaataaagc accacaactc taaaaaaaaa 120
 aa 122

<210> 506
 <211> 406
 <212> DNA
 <213> Mus musculus

<400> 506
 gaaacggagt gagtgggaatg gtaccacagc acagaggggag ccaacagcat cagacttgtc 60
 cttgacaggc atgcctgggt tnaaatctgc catgaanagc caggaggtgg cagggncca 120
 ggagntcng ggentaatcc ttngcccaag tttttgacnc ccatgggttt tggacacagg 180
 gtttttttcc cgtggcccta aannaatttt ggacaaacc gtgggtttaca attttcnngg 240
 gggcacaatg gaaentngga ccccnaaaaa ccacctnttt cnaanaaggn gcccnngana 300
 aggggaattt ngggnttttt ccccaantcc ttgggtttttg gaaanaaccc ccnaggggnc 360
 cnagggggccc ccttttcccn ggggggaacc caaccggccc aacttt 406

<210> 507
 <211> 809
 <212> DNA
 <213> Mus musculus

<400> 507
 caagcccaga tggcctggca tggagagaca tactgactga ttggaggcta ccgtgtctac 60
 tggagatgca cngattccca cacctgcaga ggctgatcaa gaggantang ccagtgccca 120
 ggcgggcttc caagagacag cgagntnagg aagaatcggn tcaagatcta ngctgtncgg 180
 gtgcaaaagt tcctngcctg aaattgaagc atggtggcaa aggggtanccc cacattanat 240
 gctgcctgag catcctggaa nagangaaaag gctgctagct gcctcangag gttgagccct 300
 cttcagcaat gccctctact gaacaccaat gtaggcagaa ccacagctgt tctgcctgca 360
 tgctctgcag tcaagagccc acctgaatgc caactatccg tgagcaagaa gtctcagagt 420
 agagttgctc tgacagcaac tgtctcttg tctctagag gcgtcttggg aagcagaaaag 480
 gggcggtctg ctctgagttg agctgaattg aggagacaaa gtgcagagag aagatacaga 540
 gggaccaaac cggactgctc tctgagtatg ctctgntctt gaatcatgcc acagnacca 600
 gcacaagcca ggagtggctg gactttctaa acctggaaga aatgagcagt agttaataaa 660
 ggagattctg gctaagatct tangagacag aataagaccc cgggogaccg ctactgactg 720
 acactgggac aatcagcaac cattcaacct accaggctct gtcttantta gtatntggct 780
 gggactgggg agcctttgca caatgatth 809

<210> 508
 <211> 295
 <212> DNA
 <213> Mus musculus

<400> 508
 ggtgtaacgt ggtcattgct tcccgggaagc tggacagact aactgctgct gtggatgaac 60
 tgagagcctc tctgcctccc tccagctccg ctgaagtctc cgccatacag tgcaacatca 120
 ggaaagaaga agagngnann nntctnggca aatntacct agctnannnt ggnaanatca 180
 acttcttggg cancaatgga ggaggccann agangntcc ngtggaatac ntcnatgna 240
 ngggatnagc atnctngnat acgaaacann cctgacnngc accttctaca tgtgc 295

<210> 509

<211> 400
 <212> DNA
 <213> Mus musculus

<400> 509
 atgaggcacg cagtgaaggt gaacggggaa gccactgttc tgacaacgca cttctctaaa 60
 cttccatggc catctccaca ggaaaccagc aggatctgtg agcaagtcg tattgccatn 120
 gagganntaa nnatagtgtg ttnttcactt nctaaggacc agggantnac cctgagaaag 180
 ctngtccnna angctgncct ggacattgng gacnncangg ntcaagctac tgnaanngnt 240
 tnttactgct ccactcnana gnactgaaga atggagacct gatttntctgc aatagtgtct 300
 cagtgcgatg ccaacagggt cctgagatcc caaaagatan tanagccgca gnccttttga 360
 tgctgaccan tagtgnggat tntgtgaaaa atgcacatta 400

<210> 510
 <211> 186
 <212> DNA
 <213> Mus musculus

<400> 510
 ggaacaaatt ctattatctt ctttcctttt aaagntgacg gaaattaaaa tgattgtacn 60
 gaagctgcan cataaataga ggcttgngctg agtgganacc gaagtngaa ctaccctnca 120
 cantatgatc ctgaaaaaga agtatttaac acattataaa aataaagggt tcaatctatc 180
 ccatta 186

<210> 511
 <211> 125
 <212> DNA
 <213> Mus musculus

<400> 511
 gctgagaaga aagccaaggt aattgcagta atgaatgctg tggaagagaa ccaagcctcg 60
 gtgctgtggg ccttgnggcc atttgtccga gttcaataaa ctactacatt ttttaaaaaa 120
 aaaaa 125

<210> 512
 <211> 155
 <212> DNA
 <213> Mus musculus

<400> 512
 attccaaaat gttgoggntg ccagcagctc anaacgtgna cggttcgact gataaggcca 60
 ctccagctgc aagagaggan ctanacgggg cgaaagaana ancgagagcn anacaagttc 120
 atcctgttca aagctcaatt ttactagtta caaca 155

<210> 513
 <211> 184
 <212> DNA
 <213> Mus musculus

<400> 513
 tgttgctgtt gacagagacc ttttctctgg aatcgcggtg agaatggtat angactttga 60
 ggacctgatg tggcctgogt gcacaccatc aacactacac ttgctgctgt ggactccact 120
 attcctggtt ctttgttctt acttctttgt acagttaaag tacttcagca gtgaaaaaaa 180
 aaaa 184

<210> 514
 <211> 295
 <212> DNA

<213> Mus musculus

<400> 514

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actcatccct | ggaaggcatg | tgtggcactg | ancatgccca | gctgggggaa | gatggncagc | 60 |
| ggccgcccng | gngcacttca | actacctnat | ctnantctga | gccttcatag | cagcttangc | 120 |
| accaaggcaa | gatcctagca | tccnaggacc | ccaaaaagaa | gcnagctcan | aagccctctc | 180 |
| acatgagaag | aaacatacta | catgaanttt | anaacagatc | aataaactat | cancaacaac | 240 |
| aganaactcc | ccataaaact | gagtcatcaa | agggaaaaat | gaaagataat | attga | 295 |

<210> 515

<211> 107

<212> DNA

<213> Mus musculus

<400> 515

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cactaagagc | actggatagn | taaggtcaag | gagactctca | caaaggatcc | agagaccttg | 60 |
| ggagaaggac | aacaagaatg | agtgtgtctc | tggtaaatac | accacag | | 107 |

<210> 516

<211> 474

<212> DNA

<213> Mus musculus

<400> 516

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| gactgagacc | ctgtgatgtt | tccagtcttt | ggctactgta | tcttagcaca | ggatgctgct | 60 |
| ttgtactacc | agtgttcaca | agcttgagac | tgtttatgac | cataagtttc | taaagatgtc | 120 |
| tatcaaagaa | tcttgtgcaa | aggaagaaaa | gtctcagaaa | aaacagacta | tctcttcacc | 180 |
| aacttttaat | gaagacaaga | aaaagggaga | aatctcagcn | ggttctacta | gttcanaaca | 240 |
| tggtgttcag | cctgtttcaa | ccaagaagag | aaaactgaaa | gcagatgata | cagacaatgt | 300 |
| agactataat | gcaaacagaa | aaaacagtaa | aagattgaat | gtagaagttt | tcattcctaa | 360 |
| aaagagacta | aaattcantt | cttcgaccca | agcggnatca | tatttaaata | ataatcnaat | 420 |
| gacttcacac | aggtgggtcat | naatnggacc | taaagatcct | aagggttaaag | atgg | 474 |

<210> 517

<211> 376

<212> DNA

<213> Mus musculus

<400> 517

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgaggtgct | gatatttcca | atgtttgcaa | tgaagcagca | ctgattgctg | cccgccacct | 60 |
| cagcccttct | gtccaggagc | ggcactttga | gcaagccatc | gagagggtca | ttggaggcct | 120 |
| tgagaagaag | accaggtcc | tacaaccag | tgaaaagaca | actgtagcct | accacgaggc | 180 |
| tgggcatgca | gtggtgggct | ggttcttgga | gcatgcagac | cctctgctga | aggtgtccat | 240 |
| catacctcga | ggcaaggggc | ttggctacgc | ccagtacctt | ccccgcgagc | agttcctcta | 300 |
| cacacgagag | cagctctttn | accngcatgt | gtatgatgct | ggggggtagg | gtaactnaac | 360 |
| aacttgtctt | ttttca | | | | | 376 |

<210> 518

<211> 276

<212> DNA

<213> Mus musculus

<400> 518

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| ttgtgtggcc | gaatanagnt | tcggagtgcg | aatgctgnaa | gtaccaggcn | ngcnggtctg | 60 |
| nctaactctgc | cctgnccata | tgccctngaaa | actatgcanc | aagcatggna | tctcgggnat | 120 |
| cagcttgcta | taagcngagn | tgcgcnnnat | ctctgcttgc | gantgctaata | gcactggncn | 180 |
| tgaantgctg | accaggactc | cacccgacct | gnttgccaag | ccantagctg | gatcacaatg | 240 |
| angctcangc | tnaccccga | acgtaaggat | ctacag | | | 276 |

<210> 519
 <211> 271
 <212> DNA
 <213> Mus musculus

<400> 519
 ggaaaggaaa gtctctccaa caacgtaagg ccaagcctcc gaagaagcag gaggagaagg 60
 agaagaggag ggacttgggg gtgtatctaa ggagcagggt agagtgccag aggggtgggg 120
 gggaccctga cttcactggg atatctcggg gagggggcac ttgtgccctc caggtgtctt 180
 ccaagatggc taagaacaag gacttgccag aaagttcatc tgcacccatc agagttaa 240
 aaatgtcgtg ttctctcccc aaaaaaaaaa a 271

<210> 520
 <211> 328
 <212> DNA
 <213> Mus musculus

<400> 520
 agactgggtg caacaaaacc tgtctcattt gaaggtgctt gaacaaatat tttctaaaca 60
 cttgtcatgg agagtgattg aaacaagctg ccaggactac atttgccaat aacaagcatg 120
 taggtggctg tagtggatgt ccaactttgg gagctgtgat gtctaaaaac cctttattgt 180
 tttgggtgca gcttacatat tggaaggtaa aatgaaggcc atgaacaaag tcaanaagcc 240
 ataaacagaa gcaaatgggg aaaattaata tcttaattta atattaataa gnnngnatata 300
 aataaacagt tattcttaaa aaaaaaaaa 328

<210> 521
 <211> 153
 <212> DNA
 <213> Mus musculus

<400> 521
 agcaagctgc acatagactn tactagactc tgggagggan aagtngccaa gtacttctga 60
 accatntttt aatacttgnt ttgtcatggn gaanttatag cagntatccc aaaatgnttt 120
 aattatcaaa atactgnctt ttaaaaaaaaa aaa 153

<210> 522
 <211> 283
 <212> DNA
 <213> Mus musculus

<400> 522
 gtctgggcag ctgagctctg atctcatctg ctctgctggg ccgcgctgcc cgggtccctc 60
 tggatggagc tggaccagca ggcagagctg cggtcctgtc ctttgctgag agctcagtgc 120
 tgcggggtct caggtcagct gggcgcttgc agcctgcgtc tccgcagtct gggaggtgta 180
 ggcggagagt cgtggggaac cgtgggtttg ggctcttgta aggggatttg taggaaaacc 240
 gcgaggtgag cccgggttct atgcacgttg tcaaaaaaaaa aaa 283

<210> 523
 <211> 105
 <212> DNA
 <213> Mus musculus

<400> 523
 ctgggaaggc catgctttcc ttggctagaa atctattttt ggaagtgtga agtgnggcc 60
 nagtgtgaaa tggngtanta tcccttgatt ttccataaaa cctgt 105

<210> 524
 <211> 402

<212> DNA

<213> Mus musculus

<400> 524

| | | | | | | |
|--------------|------------|------------|-------------|------------|------------|-----|
| gcacgcacatct | gttcctgccc | tatcggaact | cgaagttaga | gccgtctcag | agcacaagga | 60 |
| tctggatgca | acctggtaac | tgcgagcac | tctcagccaa | attcttatca | cctcagagga | 120 |
| ctcaggatct | tggccagagt | caaggagaag | acagaatctc | ctagaagcct | tccctggaca | 180 |
| tcattctctca | ggactcctat | cctaagcctc | cagtggaggag | gacatgctgt | tccaatctcc | 240 |
| ctgaactctc | agtctttcta | cctaagaaga | cagttcctct | gtggaggctt | ctgagtagcc | 300 |
| caagcatcca | tcgttgatcc | ttcacatccc | acagggtctt | gggttccttg | aggacaaggg | 360 |
| ctgcattgaa | ctcctttcat | ggnnccctta | accttaaggg | gg | | 402 |

<210> 525

<211> 365

<212> DNA

<213> Mus musculus

<400> 525

| | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| catctgcaga | ggcagagctt | anagtgcagg | attctggata | aagaatactg | agacaaggaa | 60 |
| ggctttatct | gtccttagt | cgtcctctgc | acagcacacg | tcattcccacg | tgaccttaacg | 120 |
| ccattctttct | tcttgccggt | ggcgtcccac | tccactgcgc | agacgcggaa | gcttcgctaa | 180 |
| ccggcgcccg | aagttgatta | aggacttctc | cgccggtggc | accccttccc | aggtctgggc | 240 |
| tcggcatggc | cgcactgctt | gtacggagcg | tggtggcttc | ggtggtggac | ccgttctctgc | 300 |
| acctgagtcg | cctcgccggtg | aagccccgag | tcttctctc | gttctctgctg | gggacattgc | 360 |
| cacgc | | | | | | 365 |

<210> 526

<211> 108

<212> DNA

<213> Mus musculus

<400> 526

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgctactttg | agaatcngg | aagagngat | ganggacact | attganttno | tnacaccggg | 60 |
| gtcttgactn | tagcatcttt | tccatgttct | gnctgattgg | actagctc | | 108 |

<210> 527

<211> 281

<212> DNA

<213> Mus musculus

<400> 527

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| cagcttaact | ctgaagaaac | ttggtatgct | taaagaaatg | gacanagann | tnaactnagt | 60 |
| agncatngct | gngaagctgc | agggtncaaa | aaggatnctn | cggtccaatg | agatnatcct | 120 |
| tgacgccagn | ggcctgggtg | agacagagct | ncanataaacc | ttctccctcc | agtaccctca | 180 |
| nttccttaag | ccgagatgcc | nnengactgc | agatnatggt | gncaggagg | aagcgggtcaa | 240 |
| naacctgaac | tatctngggc | tataaaacct | tagctgtgcg | a | | 281 |

<210> 528

<211> 112

<212> DNA

<213> Mus musculus

<400> 528

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| ggagtaaggc | atgccgaggc | ttnaggctac | gtgactttcn | cnatgctgga | agatgcacag | 60 |
| agggccctna | aggagatcac | tacctttgaa | ggnnngnacga | tcgaagcgac | tg | 112 |

<210> 529

<211> 368

<212> DNA

<213> Mus musculus

<400> 529

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| aggatctatg | actaagcttg | cctagcgatc | cctgacctag | tctagtcagt | gtgactacca | 60 |
| acaacagcca | tgaagaccaa | gaaggcacia | gaatctaacc | atgacctgaa | gttcaagctc | 120 |
| ataattttctc | ttcttgagta | agaaattaag | atgttccagg | aagatgagaa | acttttataaa | 180 |
| actgctgcca | agctctgggt | tgcagaagac | ttcacagaat | ggaaggaata | aaaaaactcc | 240 |
| agcagaggct | ggtgagggtg | ctnagtgggt | aagagtgccg | actgntcttc | caaagggtccc | 300 |
| cagttcaaat | ccagcacca | catggnggct | taccaccatn | tgtaacgaaa | atctgattcc | 360 |
| tcttttgg | | | | | | 368 |

<210> 530

<211> 428

<212> DNA

<213> Mus musculus

<400> 530

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggaacaaccc | agactggatg | tctcccttgg | caaanccnnn | tgnacacnna | ctgtncnnng | 60 |
| aagtncctta | ctgatggctg | gantgatccc | anatgcctgt | agaaagccta | ccccagntng | 120 |
| antgatgact | nacaaaagng | gccccngag | ggtggccana | cagnctgcgg | ccaggnnccn | 180 |
| cgtgaggctc | gatcatcccc | aacanctgct | tctgtctnac | caacctttc | cactggcctt | 240 |
| gtgagttctg | ttaaatttctg | gacttccaga | gctgacaggt | ttgttagggg | tttgagtctg | 300 |
| tgaacctccc | ttcagcccaa | gaaagaaatc | ttctcatcta | gaggaaagct | atatgacacg | 360 |
| tctttacgtt | tcttcttcat | caactgnata | gaaaaatttt | gaagtcaaaa | tggcttccaa | 420 |
| cttatggg | | | | | | 428 |

<210> 531

<211> 152

<212> DNA

<213> Mus musculus

<400> 531

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gctgctgaga | accagctcta | gatctctgct | agagagtcct | ccttctgcac | aagtccccgg | 60 |
| tgggataacc | tgccatgttt | ctctgaaact | gtgtgtacct | gttgtgaagt | ttttcaaata | 120 |
| tatcatagga | ttgttactgg | taaaaaaaaa | aa | | | 152 |

<210> 532

<211> 189

<212> DNA

<213> Mus musculus

<400> 532

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| accgtggctt | ttgataccta | tttatttata | canttggggg | gtgntgngt | gcatctgaga | 60 |
| ccctgaagag | cagggaactg | agatcctggg | ttctgggggc | tctatgaaat | ctgttcacag | 120 |
| tgtcttcctc | acttccctaca | ttatttatta | aacgattact | ttttatatta | agaggaggaa | 180 |
| ggagggaag | | | | | | 189 |

<210> 533

<211> 140

<212> DNA

<213> Mus musculus

<400> 533

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aaaacaacgg | aggggatcaa | actgngctca | ttcttctntgc | aaaantgca | canaagtctt | 60 |
| acgganatga | aanacgattt | ttttgccctc | ctccttgtgc | gtatcttatg | ggcagtaggt | 120 |
| tggaatgaaa | agcaaaaaaa | | | | | 140 |

<210> 534
 <211> 185
 <212> DNA
 <213> Mus musculus

<400> 534
 tgaagacaac aaacatcatg gcatacttca gtattacatt tatttcattg gaggtgactc 60
 ttgggcctgt gcatggacac ccctttaaga caaattcagg gagatgaatt tgacagttct 120
 accgtagtgg taagctgggtg gaaggtggca cccgaacaaa tataatttgg cacatatttt 180
 taaaa 185

<210> 535
 <211> 320
 <212> DNA
 <213> Mus musculus

<400> 535
 tctatgctac agcttaacca gatnncggaa tggacancaa ctgcntctgc tacancgtnt 60
 ggctcctgcn cttgcacat ntntcgcgcc tgcacanaac atgcagatgc angtnctgca 120
 ngaataagct gntgctnntg ctgtcacctg gggcatgctc caaatgtgcc canggtctgag 180
 ntatgcaaag gcgcgcngna caagaagcac gtgctgggcc tgatgtgacg aacagcgctg 240
 gcaccacntg gaaataggat cgggacaanc ccangggntt tcctatgcng ntccaccnct 300
 gtttactaaa cccccgtttt 320

<210> 536
 <211> 261
 <212> DNA
 <213> Mus musculus

<400> 536
 ctgctcactt ccttccctgc cagggacgag caggggtcga gaggggctgn ttttctagct 60
 gacttctgnt ttctcttgga ctgtgcttgc ccagctgtc caggagccan cgatggcctg 120
 cgggtggact tggaattnag ggtcagaatg gcnagggctc aaatggcctc tgactgacag 180
 ctccnactg atgcccgtnt acttccaagc ncaaagaaaa atccagggnc caanagagga 240
 tctngtcgcg cctggcctat t 261

<210> 537
 <211> 248
 <212> DNA
 <213> Mus musculus

<400> 537
 atgcagcatg gctacccagg gccaaaggtg aaacaggcta cagaatggag aacgagaatc 60
 tggggacagc cctgaagatg ccactagact gcctttccac ctgagggtat gtgggaagga 120
 caaatggtgg nacnngtggg cacncacacc tgangcacat gtgccgtaga cccccacct 180
 canccccacc cngtatgatt tcttnattgc tgcttgcact tacctntccc atogtcttgg 240
 agaataaa 248

<210> 538
 <211> 212
 <212> DNA
 <213> Mus musculus

<400> 538
 ccccgaggtt cgttgatag agcgggntga gacctggnga ctcnngngc acaengcctg 60
 agacttgggc agctctctgc tccctgccag actcctnngc ctggaacagg tgccacactc 120
 cccacanaag gaaacctgac ctctggtcat gtaagccan aacagagntc tctatgctaa 180
 tganggacct nnaggccctt gagggctcac ca 212

<210> 539
 <211> 118
 <212> DNA
 <213> Mus musculus

<400> 539
 accaacatac tggaanaaaa gaaccaagat cgcgaagtca tgctttgatt tccacgagca 60
 tgcccacata tataactccc acacaataaa taagcatatg tgtgtgtaaa aaaaaaaa 118

<210> 540
 <211> 381
 <212> DNA
 <213> Mus musculus

<400> 540
 gccaatctgg aaaagaaaaca ctctacatga tgaccatagg gacaaactcca ttttgggggt 60
 ataacgaagc agaggagatc aacggatgca tttacacagc ctgggggatga acagagggag 120
 gaagccctca caggcatcaa agctacctct ggatcccaga ggttgatgga gacgtgggag 180
 gaggggttgc gacacagcac tgtgggccat taccacacag gaagaagcaa gtagcaacag 240
 aacacgccct ggtgcaggcc cgcacagagg gaaggatgag ggccactccc ggaaaggaac 300
 aaaaataata aagaggaagg ctcgatcgct atggtgaact ggaccacaca cagcgggggc 360
 cgggccagga catggcctgc c 381

<210> 541
 <211> 328
 <212> DNA
 <213> Mus musculus

<400> 541
 gcctttgaga aagtgggtcaa ggaatgtgat caaggaggta agcnnacagca gnggcgatct 60
 nattccggtg gacagcctgc ggaactccac cagcttcagg cctactgcc ttctgaacag 120
 gaaattttca agctcaagggt tctggaaacc cgtttattca tgtgtcaacc tgtcaatcaa 180
 ggacatcctg gagcccagtg ctccagaacc aganatntnn ttnacatnn tgatnncna 240
 ngattgaaca gaagggaatg ggcaaagccc agcctgccat ctaactgggc atgttcaact 300
 ctactcctct ggtcctattt ccagagta 328

<210> 542
 <211> 309
 <212> DNA
 <213> Mus musculus

<400> 542
 ctccagagtc gatggagaag ctccaggccc agtactgtta cttatgttca gaaaacatac 60
 ggaaaaactaa tcctttcata ctgaatatac tccaaaaact ggatgaagaa attgaaaagc 120
 gacccaaaga aaaatttacc gtaaatattg ctggtaacaa tcgcttagac tccggacaaa 180
 gaataacagg ggaagacttt tggcttcttt ccaaaaacttt aaggaaccag ccatgtatca 240
 gtggtgtgga tgtgaggat aacctcatcg gcgatgtcgg tgcttctat gctgcgaaac 300
 tacttcagg 309

<210> 543
 <211> 166
 <212> DNA
 <213> Mus musculus

<400> 543
 tactaaaatg gccctctaaa tagcccaaca attattatgt tctttgtcct atggatttgg 60
 ctttgaaaga tgtctgtctc ttaataaggc aaaaaccaac ttttgnagct atttcatgng 120
 ntaagcacat tcaaaagttg ctagttnaat aaatgaggtt cttaag 166

<210> 544
 <211> 109
 <212> DNA
 <213> Mus musculus

<400> 544
 ccaaaggact tcatggcaac ccgatttcta gtttcctgac atgtttctgt acatttgctg 60
 tgccagggga tcaagcctga ataaatatcc ttgtcatca aaaaaaaaaa 109

<210> 545
 <211> 448
 <212> DNA
 <213> Mus musculus

<400> 545
 gactgagctc ctatatctta aagaagctgg atagcatctg aggacgggca gtcaggtgga 60
 tgcattggcat gaagacctgg tgacggcttc tcctcctgtc tgcagctgaa ttggcccaga 120
 aagggtgtaag gctgattaaa cggacatata aactacttgt tgagaacaag taggactttg 180
 agaactgacc tccatagctg aaatataaaag ccacttgga agtgcaaaaa gatgtcttgt 240
 gtcatgtgtg cccttaggcc catgaactcc acccctgtga gtgttgatgg agtgggtaat 300
 aatgtcaggg tctaaggga gtcatttctg ttaccactt ctgttcaaag tgttatttgt 360
 gaagtctgtt tggaagtcag catacaccca caatgacatt taagcacagt ctatatTTTT 420
 aataaacatt ctgatgaaga aaaaaaaaaa 448

<210> 546
 <211> 110
 <212> DNA
 <213> Mus musculus

<400> 546
 gtacacgggc aacgttcttg gggcccactt ctgagtttag aagacctatt acaaaaagtg 60
 aagaactaga ctgtgggaaa ataatggct ttgactact aaaaaaaaaa 110

<210> 547
 <211> 390
 <212> DNA
 <213> Mus musculus

<400> 547
 atggcatcga agattccctt tgccacagat ctgacagact atganaaaaat gccagtgagn 60
 ccattttggga aagtgaagcc cagcggagag gggacagcac aaaggcctat agaaatangt 120
 gcctcaccat tagcagagct ggaggacaag ataaagcggc acacacagca gatccgcact 180
 cgaagtttcc tgggtacaaa cccantgcaa gacattaana cagccaacca ggacctggaa 240
 accactaana aacttcagga ggagttaang aaactgaaag tggagatgac cttgancaaa 300
 gaccntnct ttccattctt tacttggaac cttttcactt naccaccag catnacagcc 360
 tcaaaaatata ttttttaaca cgaaatccta 390

<210> 548
 <211> 393
 <212> DNA
 <213> Mus musculus

<400> 548
 gcacgcccc aaggtgaggg tctgacgccc taccaaggca agaagcgctg ctttggcgag 60
 tacaagtgcc ccaaatgcaa gagaaaatgg atgagtggga actcttgggc caacatgggg 120
 caggagtgca tcaagtgcc catcaacgtg taccgcgaca agcagagacc cctggagaag 180
 cctgacggcc tggatgtgtc tgaccagagc aaggagcacc ctcagcacct ctgcgaaaag 240
 tgcaaggtcc tgggctacta ctgtcgccgt gtgcagtgat cttggccacc actgtagcac 300

| | | | | | | |
|------------|------------|------------|-----------|------------|------------|-----|
| ccctcagctg | ccacctccct | gtgttgccca | aagggtgaa | tgtccgcatg | cttgaggaga | 360 |
| tgtcacgggc | ctgtgggttt | aagcaaaaaa | aaa | | | 393 |

<210> 549
 <211> 505
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 549 | | | | | | |
| tggaatccaa | tccacagctn | tcccttgctg | accagntnct | tgaactgacc | acagtannta | 60 |
| aaggccngnn | tgagcnnctt | naagatctta | catgtgaccc | anctgctgct | gntgnnccca | 120 |
| gtaagtgaca | gacagcacca | tgagaccta | gctccaacta | ctactcacc | tccaagttag | 180 |
| gcggctgcca | gtgtgagcaa | tgaggggcag | tgaggctggg | ctgggaagtg | ggggtcagca | 240 |
| gtgttaaggc | tgtaggctat | cataatgggg | gttagacagc | aaagtaattc | ggtcagatga | 300 |
| gcagggtaga | taagtggctg | cgcagcaatg | aggggtggaca | gaaaggtgac | agctggggta | 360 |
| agtctggaga | agtgaaggag | aactatacag | tggaagcaga | gacacaaaacc | catccagggg | 420 |
| tgacttcctt | ttgggtgcct | cagagacggc | ttaacttcac | tcaatgtgta | gaaagaaaaa | 480 |
| cgaatttttc | tcctaaaaaa | aaaaa | | | | 505 |

<210> 550
 <211> 154
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 550 | | | | | | |
| gtaccccaga | ggttccacac | aagtaccaag | ttggagaatg | ggtatatgtt | aatagacatt | 60 |
| gtgctgaaca | cttggaagca | aagtggagag | ggccgttctt | ggtgtgtgtg | accaccccaa | 120 |
| cctccattaa | agtggatgaa | gtaacaaaaa | aaaa | | | 154 |

<210> 551
 <211> 138
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 551 | | | | | | |
| atgccacagg | acagccaggg | ctaacacaga | gaaaccctat | cttgaaaaac | aacaaaaagg | 60 |
| ggaaaaaaat | caatctggaa | gaaaagctgg | cttattaggg | ctaatagtgt | gggatttaaa | 120 |
| tatatacaac | catggctt | | | | | 138 |

<210> 552
 <211> 153
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 552 | | | | | | |
| cagacctttg | ggggagcaca | naaaatcatg | tgtggatcct | agacactgga | acaagaacct | 60 |
| gtgaagttaa | gttgcccttg | agacctgag | atattagaga | tgccagcgtc | gtaggatacc | 120 |
| tgtgaggaaa | gctactaaca | cggagtagaa | agt | | | 153 |

<210> 553
 <211> 380
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 553 | | | | | | |
| ctctgatccc | gcttgctgtt | cctactgaca | cctgagccgc | ggtggccgat | gctgctgagg | 60 |
| cccttccagc | ccacgagtea | acctaattga | ttgnnagcca | tgccnttagt | gaaganaanc | 120 |
| atngaacccc | ggnacctgng | cggagcgcc | ctgccggaag | gagtcaccan | ngagcnggaa | 180 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tgctgtgacca | acagcacgct | cgctgcaatc | atccgccagc | tgagcagtct | gagtaagtcc | 240 |
| cctcggtatc | cctgggtacc | gctgggtatc | tacagacttt | acggtaccca | gtggatttga | 300 |
| cttgtgagt | gcaactgtga | ggaaaagcgt | cttctccat | acgccacggn | caatgactgt | 360 |
| gtcaagccct | gggctgctgg | | | | | 380 |

<210> 554
 <211> 259
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 554 | | | | | | |
| ggtgttgtgt | gaaggtgcct | gaggccagaa | gaggctgtca | gatctggagc | tgtagtgtga | 60 |
| gatgggttga | agccacogaa | cacaggtctt | tctgttaactc | ttccaaagga | agcaatgatg | 120 |
| tggtctgtta | gacccgagggc | cgaagctgca | gccgtgcact | gaagcagatg | ggaaaagctg | 180 |
| aactcgccac | ccacgagcag | cgccggcagt | gagctccacc | cagcatgaca | cggcggtccca | 240 |
| ccctccacac | aaaaaaaaa | | | | | 259 |

<210> 555
 <211> 394
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 555 | | | | | | |
| caaaactgta | caatctaaag | tgactgcat | tttgcaagaa | gntgagaagt | nnacagacct | 60 |
| atagaaactc | tacctctacc | ttnaactgcc | ttntggncct | ancagngcag | agaanannga | 120 |
| tongaangcc | atgtcatcta | gtcgggcaca | gcaaagtcat | gccttttctc | ggattcgaaa | 180 |
| taccttagag | gagcatcctg | agacgtcact | ccccaacacag | gaagtctatg | atgaatacaa | 240 |
| gagctactgc | gacaatcttg | gctaccatcc | attaagtgtc | gctgactttg | gaaaaatcat | 300 |
| gaaaaacgtc | tttccaaaca | tgaaggcagc | ccgttttaggc | actagaggca | aatctaaata | 360 |
| ttgctacagt | ggactaagga | aaaaagcttt | tgctc | | | 394 |

<210> 556
 <211> 297
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 556 | | | | | | |
| gtgggttttg | gctgagctcg | agtcctcacc | agagtcttca | nanataangt | ncngaggann | 60 |
| tanatntgan | gccagcctn | gngggctnaa | nggaaacctc | ctatgnacaa | aanaaaggcc | 120 |
| tacgnggaa | tgcaanacct | gncanncagg | caccatgggt | ggcagccatc | atgcttncat | 180 |
| gaccattggg | cctgctggnc | tacctgggtc | tagcccagga | agccaccagg | taggttaggg | 240 |
| tggtcagtgc | cgagtctcct | gcagacacag | ntatacctgt | ctttctgcac | tggtcca | 297 |

<210> 557
 <211> 208
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 557 | | | | | | |
| tgagttccct | ctgagggact | cggcagctcc | gaaccaagct | gtggatctgg | ctctctaagg | 60 |
| gaacctocag | aaactcagct | tgtgggctga | gccaggttct | gtcatcgaat | cagggaactc | 120 |
| tgtgaccatt | tgggtgtgag | ggaccatgag | aaccctaaac | aagtaacatg | gaataataaa | 180 |
| actattttaa | ttggcaccaa | aaaaaaaaa | | | | 208 |

<210> 558
 <211> 389
 <212> DNA
 <213> Mus musculus

<400> 558
 tgtccggaag gcagaggcaa actcatctcg gagagtttct gaacttgtgt ggaaatcagg 60
 atgtgtggga attgaattta ctcaagtgcc aacttacctt aaactcctaa tcctccagca 120
 ccccccgca actgctgcga ttataggtct gcaccattat acccgtctt ttagggcctc 180
 ttaaaaagag ggagcaaagt agagcgatgg ccccggtggg gaagttgttt gccactgtat 240
 caacaatgct agcctgacaa cctgagttgt ggaaagacaa aatgaaggcc acagagatgt 300
 cctctgactt ccacactggg gcagatggca aatccacca cctacgtgtc acacacacat 360
 aacaacaaca ataataataa taggcataat 389

<210> 559
 <211> 222
 <212> DNA
 <213> Mus musculus

<400> 559
 gtctgcaaac atgcatgtac acaccatac ctcagagagg cnttgcattc ccggnctaag 60
 nncaagancc atgcntacac atatggcgtg nggagaagnt gaagcnggtg ccnatagcac 120
 ggagagagcc atggnatctt tttntctggn gactactnnn tagtgcttca nantggccga 180
 taggatgant gccgntcang ntactgtgct gcttctactc ag 222

<210> 560
 <211> 250
 <212> DNA
 <213> Mus musculus

<400> 560
 gtcaatagaa tcttcgtccc ctgcgcttga gcttcaagtg cacctcctct tatcatgcca 60
 tccctctaca ggctgggaaa tctgccaaac gacgatgacc tgccttgact ctgcctgaca 120
 ggcagacttt cttttttnt ntgnttnaaa naancggnaa acagntgntg acanangtgt 180
 gtgcccgctg gtgcgtncgt ncgtncgtgn ncnggggtng aangggngcc ntttgaggcc 240
 aaaatagggc 250

<210> 561
 <211> 262
 <212> DNA
 <213> Mus musculus

<400> 561
 gaggtagcg agttgcaggt anctgaangg cacttncagg cctagaggga ttgttctgct 60
 gccaaggaan attntgcnat ggcttgatcn nacatatgaa cgttgnttgg atatnancga 120
 tttttagngc cctgaagatt ttgataccna ccagagtctn ctggaaanag cttgtcctgn 180
 ataccangng gatgctnanc tcatagttga atcatncccg ancttctactg agcagacctg 240
 atctcagaag taacactgac tc 262

<210> 562
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 562
 ggaaggagcg attctnacgg aggaaggagc acgccaacag ggccctgactg cgtacagaca 60
 tgtccccctc aataaaattg cagttgaaat ggaaaaaaa aaa 103

<210> 563
 <211> 242
 <212> DNA
 <213> Mus musculus

<400> 563
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 gtgatacnga ttggagccat cantcatact ggggaagcta nctnaactac ccngaacttg 120
 atnnatggga aanaanggggt ttccnagaca actngaanc ntggatgatg naatgggtat 180
 tatgccccn aaataccaat atagcctttc atctttttct gaaagtatta ttctcataag 240
 ga 242

<210> 564
 <211> 423
 <212> DNA
 <213> Mus musculus

<400> 564
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 ttntgggaca ttgccagagc caccaacatc ccanagaaca aacaagacca tggcttcctg 120
 cattgggcag ctccctgcta cccatatac aaatataagc tgttacagga naaatganca 180
 naancaagaa ncntnggaag tgcgagnaga ntnnaangn gnantntgna gaanactnga 240
 aactgaagcn aatnacagat ttcaagggna ntcttgtgct tggaccctgn tnacctgaan 300
 atgaatccnt gntanagtgg ctngatgcc angttctgcc tagctaggcn nactnacaac 360
 ctctgcaggn agagccttgt gtcttttagct atgganctgt accatagagt gtgcattcct 420
 ttg 423

<210> 565
 <211> 197
 <212> DNA
 <213> Mus musculus

<400> 565
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 cagctctcaa ggaatggtct ttctgtgtct gtctgcccgt tacggtcctt ttctgtacc 120
 tccccaagaa ggctggggaa aacgcttggc tcagggttga cagaaaacaa ataaatactg 180
 tagtaataag aaaaaaa 197

<210> 566
 <211> 353
 <212> DNA
 <213> Mus musculus

<400> 566
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 ngatggcagt ctggctgagg tccccaagga ggccccaaa gtgggcatcc tgggcagtgg 120
 ggattttgcc cgttccctgg ccacacgcct ggtgggctct ggcttcagtg tgggtggtggg 180
 gagccgtaac cccaaacgca cggctggcct ctcccccctc ttagctcaag tgactttoca 240
 ggaggaagcc gtgagctctc cagaggtcat ctttgtggcc gtgttcggg agcactactc 300
 ctcactgtgc agtcttgctg accagttggc tggcaagatc ctctgggatg taa 353

<210> 567
 <211> 160
 <212> DNA
 <213> Mus musculus

<400> 567
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 tacagatttt gatcntaacc tggnatgact gngcagnttg tntggagant ttnatctgna 120
 ggcccgnaag ggcnggaag gatggggggc ataaaaggca 160

<210> 568
 <211> 137

<400> 573
 gatgagcctg cccgcaaacc agatcaagga gcccggaag cagtctcagc ccgcaaaatc 60
 gctcaaggaa cccagtcagg aggctctgcc tgtaaaccta ctcaaggagc ccagccagga 120
 gtcccggatc ctgtgccctg acccggccat cgtaagtga cccctgcgtg gccgctgaaa 180
 aaaaaaaa 188

<210> 574
 <211> 188
 <212> DNA
 <213> Mus musculus

<400> 574
 tacactgatt aaacactttg agnannctgg tagcntataa ttaggatgnc tgncccaca 60
 cactccacac tgcaggggna ctgcntactg aatataaagc tgtggaaggg acatctctgt 120
 ncggacctcg agaangtcta cagctctgat cgagaatgga nttggaagcc atggctaaat 180
 tacatatt 188

<210> 575
 <211> 231
 <212> DNA
 <213> Mus musculus

<400> 575
 ttccaagagg accottanaaa gggcttgggc tgtatctgct ttgtgttngt cctgcctgg 60
 atgtgaacat ttgaactgac ccttcgaatc aatgctcatg cctgaagcac gtctatgata 120
 ctcatctgcc gtaggctgga aagtgaggaa caagtggggt gtttgggcac cccacatcct 180
 ctactatgga aatgtctaca agattcgtgt tggatggttt aaaaaaaaaa a 231

<210> 576
 <211> 558
 <212> DNA
 <213> Mus musculus

<400> 576
 gtgacacgat gatggtcgct ttcactctcc ttccaggagg acgctccgga gttcgattcc 60
 tcgctgtcac attcagtggt gtcactatct tgctggatct gattcaccgc gaggaactgg 120
 gaatggcgcc tgactcgtct ttgttcaagg taggcgctga ccaaagccac ctcggaatcg 180
 gttactgtgg aaacntgggt ctgctntggg ttnttcatca ccagtgaaga gtnccaggac 240
 ccttctctat tttgncgctt acaggangtt tctttgcttg ctaatcnaca naacagacaa 300
 acaggtnang caataatagt actaacagtc atgaataggg tgctatanaa aggtcagnga 360
 agcctnnagg tgggtgtnca tgcctttaat cccagcactc tangacaaag aggcctagac 420
 aaatagatct ctatgagttc anggctagcc taagnctaaa agttgagttc taggccagat 480
 agggttacaa cnggangatc ctatcttana taaatgaaca aataaaccaa gttacctnga 540
 ncacccaaaa aaaaaagg 558

<210> 577
 <211> 107
 <212> DNA
 <213> Mus musculus

<400> 577
 gatgaaggct tctctgctct aggccttccc tcagaccctg aagacatctg tntctcattt 60
 cccatctgcc ccaataaaga agtttctatg tcaggcaaaa aaaaaaa 107

<210> 578
 <211> 232
 <212> DNA
 <213> Mus musculus

<400> 578
 agggcgccaa aggcgacgcg ctggcggcca gotccaagcc aaccaggccc attgcgtccg 60
 tctgcaggaa cctgtccctt caccctgctt tggacactga gcttcggagg atctggctgc 120
 gagctgattc aacgccaggg cgccgcctag aggtcggtcg cgtcctcggc ctgcctcacc 180
 gaccacagag ctgcttgtcc aagccacagt gtcagactta aacaaaacaa aa 232

<210> 579
 <211> 136
 <212> DNA
 <213> Mus musculus

<400> 579
 caatacctgc ttggaaagcc atactgtaga cacttaacca gatatggcct gggggaagtt 60
 ttggaaccag attgnttctt gcaaagctnc tttttactgg tttggcttgn atctaattggg 120
 ccttttaagc taaaac 136

<210> 580
 <211> 397
 <212> DNA
 <213> Mus musculus

<400> 580
 aagactgagt gcacttcaca gcaaaaaatga aaacggaatc attaaaaatgg ttgaacacag 60
 accaattctt ttaattttaca atttgctgaa aaatcattgt cgctgttttc accctatgaa 120
 ccctactaag agaacggttt ctgagagcgc agccgcagcc gcctggcacg gcctacgagc 180
 gagcgccagg tgcatttgca cactgactgg aagaccacgt gggcaggagc agggtaaggc 240
 accactctgg acagtaagggt agcttgagcgt aacaagagtc agcaccacga gtgggtgctc 300
 agcaaatact tgaataaatg aaaaccataa ttagcacgat tctgttcacg gccagcaatt 360
 cttcaacccc aataaaaatac ctataaaaaa ccaaaaa 397

<210> 581
 <211> 261
 <212> DNA
 <213> Mus musculus

<400> 581
 gtctcgtgta aagagtcggc tgtgatctac agcctgngga cccacaaagg ggtgaggtga 60
 cgttttaccac canccagggtc tccgagggct gngtagctca ngctgccaat gctgtgctgt 120
 aagtccacgt tctcttctctg gattttcccg gagttactgt gagactccag gataaagaaa 180
 gcagaacaca gaacacagaa cctgcccaca gtgaaagctc tagtttggtt gttataaatt 240
 ttgtcattat taaaaaaaaa a 261

<210> 582
 <211> 232
 <212> DNA
 <213> Mus musculus

<400> 582
 cacagggtca gaatccatga ccatcatgnc angangtatn gcagngtgca gatnngngaa 60
 taaacaattc cagntntctg ctgcancatg ctgttaactg tggattnact gtgtgcaagn 120
 ctgttttana ttttttaatc taagcaccac tgaatcttat taaacgtggt ttttggnng 180
 ntnggtngc nggatctgt gagagctcat gngggttttg gcctcagttt ga 232

<210> 583
 <211> 450
 <212> DNA
 <213> Mus musculus

<400> 583
gaaggacagg agaccagcag gagctgggat gaagcangat acatccaaaa gacaaaaaga 60
attggcccca gccccnngc caccctgcaa actaaggcat ctcatttctg tggccaaaaga 120
gaaggggcaa atggaagtac ccaggagagg agctggccca gggccctcag ccagactcca 180
gaagggtgac cttcctcatg taggctcagg taaaggtagc attacccaaa gcctccctca 240
tttcatgatg gaagattctg gaacaaatgg gaatgccagt aaacnccna cagccaacac 300
agggcagctc aactttctct gtgtncctaa tttcttggtg tgtgagtggc aatccctaata 360
tgcccttcta nanaagaaat tcaactctgca ctagtanagg attctactgn agacctotcc 420
ttgaganctt tcccactcac ccctgatgat 450

<210> 584
<211> 367
<212> DNA
<213> Mus musculus

<400> 584
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tggggagaag tgcttggtaa aaggttctgc acatcaatgg ccctgtttcc tggaaacttac 120
agacaagttc tcagtgtatc cagcaatata ataccactg ccggaagact ggagggcaat 180
ttactcaact gggaagtttc atttgaaact ctcttctaaa aatattttcn ggggctggcg 240
agatngttca ttggtaaaga gcaccanctg ctcttctgaa ggtcccnagt tcaaatocca 300
ggnaacnnc tgggtggnctc acaaccatcc gtaaccgata tcttgatgcc ctcttctgga 360
gtatttg 367

<210> 585
<211> 163
<212> DNA
<213> Mus musculus

<400> 585
cacatgcgta ctgtgacatg ggtgtatgcn tacacatana cncnctgctt cacgttgtnn 60
gaataaaatt aatncccttg ttgcacnctg actccacatg cngtccctgt catgggtgta 120
tgcattncaca taanacacaca tccacacgtt gttaaataaa taa 163

<210> 586
<211> 241
<212> DNA
<213> Mus musculus

<400> 586
gcctggacat aggocatann aactactgcg tggaaactctc acatgggctg cctatnaann 60
ntggctnngt tocatatata tncgtctctc caatttgaga gaatccgagc tcgggtcccg 120
gcnatnaann ntccatnct gaagccccta ttctctagaa agtataggaa ctctctgacc 180
tgcaggcatg caagcttcga cctcgacgtc gagaaggagt gagggctgga aaaagaaaaa 240
a 241

<210> 587
<211> 261
<212> DNA
<213> Mus musculus

<400> 587
gcagaggtgg agtcattggc gagatggcaa gctggaaaga aaactcaaga actccttgta 60
agagccatgg aagttaagga aggggaggaa atcaacttga acacacgtta agatgccttt 120
ctgcctctg aaggatcctg agtcaactgcc ctcatttact atgaatccct ccaaaattaa 180
ggcggtttct atgggtgctt tctacaataa ttatgtggct ttataattag ttgataaaat 240
attaagactt aaaaaaaaaa a 261

<210> 588
 <211> 239
 <212> DNA
 <213> Mus musculus

<400> 588
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 tttctaatac agccttttga atcgtnacgg gacaagtgtg ccatggctcc ggtcgggtcca 120
 gaggnecatga ttcnatgnac cgaatgacag gatgacaacc atccataaag anatctntcn 180
 cnntntnatg gagggctgga gcacatggta nacggtactt acatataata aatacctaa 239

<210> 589
 <211> 267
 <212> DNA
 <213> Mus musculus

<400> 589
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 ctggatcnag tggaccacag nnnagcttga anngtgngcg atatctcntg ctgaccnana 120
 tgaanccttg anattctggg aaggantnct agnacnngaa tcctattgac aatgtgagct 180
 cctctgagtg tctgngannt ncttccacgn tcntnatctg ttgcagcaag acccttttct 240
 acttgaattt gtttaatgat gtttaatt 267

<210> 590
 <211> 321
 <212> DNA
 <213> Mus musculus

<400> 590
 aacttgagtt cagaatgctg cagtggattg tacgagggtg gaaaataacg aattaccttc 60
 tccaaatctg aactcaagta tgaacgtggt caggatgggc caaaatgtat ctctgtcttg 120
 ttccaccaag aacacatcag tagacatcac ctattcgctc ttctggggta caaaatatct 180
 agaaagcaag agaagacgag ggggagctgt ggatttccac ctgaggatct ccaatgccaa 240
 cgagtcaggc ccctacaaat gcaaagtcaa tgtttccaac ttgatgaaat acagtcagga 300
 tttcaacttc aaaaaaaaaa a 321

<210> 591
 <211> 344
 <212> DNA
 <213> Mus musculus

<400> 591
 ctctctgaca gactatgtgc caggaaaaga ctgtctgtct tgagctacca ggcccctaag 60
 gagtactgtg acccagcgga gttgcaaccc attggagtga ccgcttcagc ctaggaaata 120
 ccactcttac agtcaagcga gcaatggatc aaaaatgctaa tcagccagga caggagagac 180
 ccagcgttcg cctggaaaag ctacagcact gggcaagaca caagcaaagt ggacgcctac 240
 tgggtgctggc ggtgaggcca ggttgccccg cttcaggttt tcgctgactg tacacagttc 300
 aattccactc atgttcagtg agcacaaaacc atgcaccaga aact 344

<210> 592
 <211> 124
 <212> DNA
 <213> Mus musculus

<400> 592
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 gactccatgt natatgtagt gaaattactg tatatagttt ctattnaatg ttaaaatgct 120
 aaaa 124

<210> 593
 <211> 848
 <212> DNA
 <213> Mus musculus

<400> 593
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 tcaaattgct gtacacagca actaaggatt tgaacttgat gaatgtgact tggaagaaag 120
 atgatgagcc ccttgagact acgggtgact tcaatacaac taaaatggc aacaccttaa 180
 ccagtcagta caggttcac gtttttaata ncaaacaatt gggaaaatat tcttgtgtct 240
 ttggagaaaa ggaactaaga gggaccttta acatncacgt acccaaagct catgggaaaa 300
 aaaagtctgt gatcgcttac gtgggggatt ctactgtgct gaagtgtgta tgtcaagatt 360
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 ctactcgaa tgaagaatgat atcatcaatg gttcccatgc caatgaaaca aggtcaaga 480
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 gagaagtgag gagcaaaatg agctggttgt gctgagcttn ctggngcccc tcaagccatt 600
 tntgggcata cttgccgaag tcactcctct ggggggcac attctgcttt gtgaagnggc 660
 cccccccng aaaaagaatg accccaatg cttggggaaa agaaatttga accaaattgg 720
 accagctgga aatcanatga tagccatggc ttanaaaac aatgggtccc cggtncanaa 780
 aaactggact nttggcgat cannggaata cncgaaagga gcttntcncc cttggggaaa 840
 aaaaaaaa 848

<210> 594
 <211> 121
 <212> DNA
 <213> Mus musculus

<400> 594
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 tgtntggact ntctccnagt ccancagtcg ctgggcacca cgaaagaact gcataaggag 120
 c 121

<210> 595
 <211> 160
 <212> DNA
 <213> Mus musculus

<400> 595
 ctgaggagac acacangtgc acgatgctac tgaaacagta natcttcctt gncaagnngc 60
 tgcactcang ctctcctnnat ncttggagtg actgcgacta gnagagcctg ccctacnadc 120
 atggctggcc ctctcctgaag gncaataaag agtgtgaaac 160

<210> 596
 <211> 380
 <212> DNA
 <213> Mus musculus

<400> 596
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 aatcagggat gtgtcgcccc gcccatgaag accttcgtta tgttccgtgg aaaaaccacg 120
 gtgcttggga ctacagaacat ttctctcagt cgcagagccc ttgatggagc caaggatacc 180
 ttgccaccct acagaggact cgggggttoca cattcgctcc ctgccagcct acctggtccc 240
 cagaatgatc ctaaagccca ggggagctcc ctgaagcctg gagctactga aaagcactca 300
 acccgggaga aggtcaaaca ctactgaag gctctgacct gtctctgcgg gcaggtggag 360
 tagtttcata ggaatctgtca 380

<210> 597
 <211> 402

<212> DNA
<213> Mus musculus

<400> 597
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tgctggaaga gcagcccagt gcaatccctc gcatcaggct ccacactcca gtcccagacc 180
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aagcagtcaa ggacaagcca ctggcctccg gccgggctct tt 402

<210> 598
<211> 104
<212> DNA
<213> Mus musculus

<400> 598
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aagagctgta atatctcagt gactggatga agtccaatgt atca 104

<210> 599
<211> 333
<212> DNA
<213> Mus musculus

<400> 599
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aacagcagca agatcagtga tcttccgaaa aacgagtact taaaaaagct gtcaggcccc 120
gagttctatat ctgaaaacga ccccttctgg aatcagctct tttcattttc tttccccgca 180
ccaaccagca gttctgagtt gaagctattg gaagaggcaa ccatttcagt ttgcaagtct 240
ttgggtaagg tgggaaggga gagaaaaaca ggcagtttct aagattttnt gttaaaattt 300
ttaatagtnt aataatatga gttgaattaa aaa 333

<210> 600
<211> 394
<212> DNA
<213> Mus musculus

<400> 600
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ggcctcgaag atttgggcag tgactcgagt gaggaagaca ctgaaggagt ggccggatcc 120
agcgggtgacg aagacaacca tagggcagag gagacctctg aggagctggc acagggtgggt 180
gagggaccag cttccatggg ctctcctgca catgaggatg gccagaaaga ggaagtgcct 240
gcctgggagc tgtccgcttc aactgtccc ctctgtgggt tcctcgggaa cctgggtcctc 300
tatccgtccc tngtcacaca tttgancttc aagggttggg aacctcagtt gnctgtgcct 360
ttcctgagaa tgacgaatgc ccacgtgctc atgt 394

<210> 601
<211> 374
<212> DNA
<213> Mus musculus

<400> 601
tgatgagacc ctacccagtg attgntggaa ttacaaaatt cacggataac tntgctggtc 60
tnagcatgta gccctgcctg gaaatcctgc ctcagagtct caagtgtgtg gtgacagntt 120
tgatgacanc gtagngctg atgnatcnat ncggatatgc ncctgggaca gncccccanc 180
atagctgnen tnacgactag atgncatgna cctnctcatg gcnatcacag ccnctccnnc 240

| | |
|---|-----|
| ccagcaatgc cacttccagg aattgatcct cacaaacaga gtagctctga cataggagtt | 300 |
| atttattgca gtgtgggttg tgatattaat gtagaaatac attccatcaa taaagatctt | 360 |
| tcagttaaca ttag | 374 |

<210> 602
 <211> 182
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 602 | |
| gatggctgca gcaactcctc tgccgatgag gtgaacacct cctgaccac aaccacgacc | 60 |
| accactagtg ccttcacat ccaggaatat tttgccaaaga gaatggccca attaaagaac | 120 |
| aagccacaag ctcagctcc agggctctgac ctttcagaga cccctgttga aaggaaaaaa | 180 |
| aa | 182 |

<210> 603
 <211> 387
 <212> DNA
 <213> Mus musculus

| | |
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| <400> 603 | |
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| ggtttgagga acgccgatgc ccaggtacca catgactccc cagaaccagc cgcacaccca | 120 |
| aatctgtgtg ggattgacca cgaggcgctg aataagcaaa taatggagta caaacgcaag | 180 |
| aaggagcgag ggcttcagtg tcagagtctg gcgccaccat cagggcggga gcaggcacct | 240 |
| gaaccgaccc gtctgtctcg gaagagagag aagggtgcgat cccgggtggca acaccgggac | 300 |
| gcttccccag aaagctttct tttgggcnaa ggagaccaag gacgaaggac agcagctcan | 360 |
| agtggggaat gccatgcccc cgaggca | 387 |

<210> 604
 <211> 176
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 604 | |
| gactacatca cttactngcc tgtggaactg aaccgtggac cttnacgaat tcaangctga | 60 |
| cacagtcagg cttcaacgac cagagtctcc toggcactga gctcatctca gggtagaccc | 120 |
| cgatgttggt tcccatgaat ccttgccctg gagaataaaa ggcagagtca caaaaa | 176 |

<210> 605
 <211> 138
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 605 | |
| tggtgggcca ggccgtggtg ccttgggtgat ggggggagag gccccccca cagtccgctg | 60 |
| agatccctgt gcccaacctt ggccctttgcc atggctccgg taggtccaga gctgtctaga | 120 |
| cgcatgaata aaaaaaaa | 138 |

<210> 606
 <211> 281
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 606 | |
| gtcccatggc tgttattggc tcccttgctg tccccaaccg ttctcaggt cacctcccca | 60 |
| ccttgctgcc tatgtcccga gggntgaga gggccnaaca tggaggantg cagaaccaag | 120 |
| gactccngng ggactctgcn tgccggaang gctctgnggn tgcattttct aaaagcttca | 180 |

| | |
|---|-----|
| tctcatcctt ntcaatgtca gnggcanaaa aaactgaccg nagctcaaat cccaacantg | 240 |
| ggnccttctt nanccctcct gggtaatggc tactctctgg g | 281 |

<210> 607
 <211> 634
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 607 | |
| ggacatggag ctgtgtttga ctgcaagttt tcacaggatg gacaacattt tgctgtgaca | 60 |
| gattctcacg ggcattctct gatatttggc tttggatgca gcaagccata tgaaaagatt | 120 |
| cctgatcaga tgttttttca tactgactac cgaccactga taagagattc caataactat | 180 |
| gtcttgatg agcagacaca gcaggcacct catcttatgc ctccaccatt cttggtggat | 240 |
| gtggacggaa accctcatcc aaccaagtcc cagagattag taccaggtcg agaaaactca | 300 |
| gcagatgaac atttggttcc acagctaggc tatgtggcca caagtgatgg ggaggtgatt | 360 |
| gaacagatta taagcctgca taccaacgac agtggagatg caagcccaga gtccagcgtc | 420 |
| ttggtggca tgattangca gctgcagcag cagcaagacc cgagactggg agtggatcaa | 480 |
| ggatnggact gcaaatggac tttcccagtg ggggaaagga ccacccccga aaaaggggag | 540 |
| tttttagaaa aactgagttt tagacaattt cagncttctt ttcaaaacaa ttgggncntt | 600 |
| cccgctggna aatggggcca aggtttttaa aggg | 634 |

<210> 608
 <211> 109
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 608 | |
| ttggactaag cgaccttgaa tggattcgac tgactactac caagtggaac cgatcatgct | 60 |
| agtctttgta cgcaaagaat aaaaatgtga agaactttaa aaaaaaaaa | 109 |

<210> 609
 <211> 266
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 609 | |
| ggcctacaaa tgtgacggtg tgtaacaatg gcctttaccc atntggtgtt cctnggagtc | 60 |
| ccacctgaag aagatncacc ggggtacagc agcantatgc cnacatngca gngtagagac | 120 |
| anactctacg tgtgtgagga ttgcggctac actgggccc accnangang acctgtatct | 180 |
| gcatgtgaac antgaccatc caggagcac ngttttctca aaagacttcc aaaaagntng | 240 |
| gcggnctta tgcataacaa gctgac | 266 |

<210> 610
 <211> 302
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 610 | |
| atcgcaacga acgacataag ccagagcatc gttcttccag ccaaggaccc ctgtcatcca | 60 |
| ttagagcggg aatcaagaga tcttctcgga cctgtattca gagtgaactt catcgggaca | 120 |
| ggaggcgtgn ananaattat annatnnggt agatnctgat agcatnnagt gaagtagcat | 180 |
| caattggcag actgttttac ctcataagca gtgctgtacc gacttctccc tcatccacac | 240 |
| atctctgaac ccatatataa gtttgacaaa taaaggtttt gcttgagaga aatgaaaaaa | 300 |
| aa | 302 |

<210> 611
 <211> 697
 <212> DNA

<213> Mus musculus

<400> 611

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| taggaacctg | tagaggacca | cccntgcacc | gatnctactg | aancaaagat | natnntcgtg | 60 |
| gtaananngc | ncgatcacta | tgccttctnta | antctggncg | tggcannana | atgcnatcnt | 120 |
| tgatcaancc | anaggancca | tgcatagggc | tgaatgaggg | caaacgttgg | agcancttnc | 180 |
| ctgtcactgt | ttggagatcc | ctatgagctg | gatccctttg | acagcaatga | ataacagtct | 240 |
| gcagatccac | cttcccctct | gagtgccaag | aggagagtgc | tgtcccgcctc | agctctgcag | 300 |
| tctcaccagc | ctgtggccag | acctgtcgcc | atggggctct | ctangaggca | nnttccttgc | 360 |
| tgtggcccc | agagcccaag | cgtgggagga | agccccgctt | tcttgacctg | tttgggaagc | 420 |
| atnctgtctg | gccnnagcct | cctgatgatg | agcangtgcc | tgatgttggc | attacaccgc | 480 |
| ggatggntct | nttaancgcc | cannaagggc | cnggggaagg | aagantttaa | ntcttcccct | 540 |
| tttccccaan | nccttngnaa | aanntggctt | tgctttcgng | ggttgggaag | ncctttcttg | 600 |
| ngttcaaatt | cgttntttt | ggtcacnggn | cccanntggt | ttgggaaacc | ttggggggag | 660 |
| ncccnnnnaa | ccnntggccc | ccttttttaa | cctgggg | | | 697 |

<210> 612

<211> 370

<212> DNA

<213> Mus musculus

<400> 612

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| gtgtgagagc | agaaaaacgg | acttaagagc | tgancaggat | gcgttcacgg | tgcaccgnc | 60 |
| ctgcccgtcg | tctcctcagc | ttgtgtcttg | tgggtgtctgc | gagcctagag | actatcacac | 120 |
| cgtctgcttt | tgatgggtat | ncanatgaac | cttgactat | aaacatanca | ntacgaaatt | 180 |
| cccggcta | tttatcctgg | gaattagaga | acaagtctgg | cccaccgc | aactacaccc | 240 |
| tctggtacac | agncatgagc | aaagacgaaa | atctgacnaa | ggttaagaac | tgttcagata | 300 |
| ccacgaagtc | atnatgtgac | gtgacagata | agtgggtgga | aggcattgga | nagctacgtc | 360 |
| gtcgccatcg | | | | | | 370 |

<210> 613

<211> 478

<212> DNA

<213> Mus musculus

<400> 613

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| aactacaaag | agcgagtttc | tacttcaatc | ttttcctctg | cttgaggtac | atcagggtca | 60 |
| acatgaacaa | ctggagggtcg | gaggataact | tcaggccccc | caccatata | agactgcagg | 120 |
| aaattccatg | tttcttctga | aatttgacca | gagtctgctc | ctaaaattgt | atgtatgcaa | 180 |
| aaagaatgat | atttacaaac | atgaatotta | atatagcttt | tacagtatat | ccaacagaga | 240 |
| aatcctctat | ggaggactga | gaattctgaa | accttcagat | tatcagcctg | tatgctataa | 300 |
| aaaacaatat | ggagacgggt | tocaaatgtc | tagagatcca | ttttccaagc | tccaacaacc | 360 |
| ctaaaacctt | cctaaaaata | agaaatTTTT | accttttctg | ttactgtaag | cctgaccatt | 420 |
| tctgaactag | gtaaataaat | tacataatag | ctggttatnn | tttttttaaa | aaaaaaaa | 478 |

<210> 614

<211> 158

<212> DNA

<213> Mus musculus

<400> 614

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| ctccccttgaa | gggggntggg | gctatgaact | tctgccccagc | ctagagagct | gtatactccc | 60 |
| atttcatgga | ctctgcttga | gtgtgcagggt | tttacctgaa | ttctatttat | accttttgta | 120 |
| tgccacataa | ataaagataa | tttatataaa | gaaaaaaa | | | 158 |

<210> 615

<211> 321

<212> DNA

<213> Mus musculus

<400> 615

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcatgcctac | agtctgcccc | tagttccctg | gctctctgaa | agctcctcag | agctctcttc | 60 |
| tcaggataag | aaccccttgg | ctatgcttgc | ctcccgaagc | ccatggaatg | gcttccttca | 120 |
| tgaagataag | cagagtcctt | tgaaagcaag | ctttggatga | gttctagaag | catcctgttt | 180 |
| tgagacacgc | cgttgaagat | gcacccctgc | tctgcagttc | ccctccacgc | acaggattga | 240 |
| agaagtaaaa | gctcctatac | agaaggtttc | acatctgagc | agcagagtcg | gttcagtaaa | 300 |
| accctctgat | acaaaaaaaa | a | | | | 321 |

<210> 616

<211> 124

<212> DNA

<213> Mus musculus

<400> 616

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcattgcttc | cccggaagct | ggacagacta | actgctgctg | tggatgaact | gagagccctc | 60 |
| tcngccctcc | cntctagctc | ccgcttgaag | tctcctgccn | atanagtgc | accatcagga | 120 |
| aagt | | | | | | 124 |

<210> 617

<211> 771

<212> DNA

<213> Mus musculus

<400> 617

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| gtgaacctgt | caaacctttt | acaccagaga | aagcgaaaga | gattataatg | tctttacagc | 60 |
| agcctgcaat | cttctgtaac | atgggttttcg | attggccatc | acgacactgg | actgcgaaac | 120 |
| acctttcgaa | ggtcttggag | ggcaagcaga | tacgggttcag | aatggggcctg | agaggcacag | 180 |
| gcacagttcc | tcagtatgaa | accgaatgta | gttatgtgga | tgcgacgctc | gaggagtfff | 240 |
| tgacctggaa | ctgtgaccag | ntagtatatc | ctggaccatt | caaagattat | gaacattcta | 300 |
| aattctgggc | ttacgctgac | tataagtatt | ttgttactct | gtttgaggac | aagacagatg | 360 |
| ttttccagga | ggtggtgtgg | tctgactttg | ggtttntctga | angaantgga | cnagaaagta | 420 |
| cactgtggat | cgggtccttt | ggagcccaca | ctccctgcc | tctggactcc | tatggttgca | 480 |
| acttagtatt | caggtacaan | gaangaaaaa | atggcatctc | tttctcctctg | aagatacgcc | 540 |
| tttcctttat | ncaaccagaa | ttccttaaga | agagtctagt | gtgttcaagt | aaaatcaatg | 600 |
| gtgcaacct | gatttgaaa | gctttccccc | agttccagaa | agctcgaaa | acatatgggc | 660 |
| accgttgagc | ccaggacaag | gttctgggtg | gttcccanac | actgggtggca | tttacnttgg | 720 |
| aagnctcttt | ganctgttna | cccgtaaga | ntaaaactcc | tgggaattgg | a | 771 |

<210> 618

<211> 736

<212> DNA

<213> Mus musculus

<400> 618

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|-----|
| cattccgctc | tgagctgaga | ctctgctgct | tccatggctg | cttccttgaa | gacacgcaca | 60 |
| gatgttttgg | ggtgaagcac | atctgtccgg | tccatccctg | cccatagaag | acggggaggt | 120 |
| gtcatacct | tgatgtggcc | agtggctttg | gagccctgaa | gcctcaactc | tctgcttgga | 180 |
| tccacgtggt | gacagacaca | cgtgctagac | ctgtcagttg | tgaactacgt | gtagagtggg | 240 |
| tggggaagga | gatctcaacc | ccgaggcaca | gataacgaac | aacctggggc | agctgggagg | 300 |
| tgactgggcg | tgccattcat | ccctgagagg | ttcccaccga | ggcagagatg | tagtcctcag | 360 |
| acgttaatcc | tggaaagggtg | gctcagcagt | tgaaaccgct | ggttgctttt | ccaaaggacc | 420 |
| agggttgtct | cccaacaccc | cagtcaactt | gcctatagtc | ctagcaggca | agagagttag | 480 |
| aagttcaagg | ccatcctccg | ctgtatagga | ngccactata | ggctgcatga | aagccagcct | 540 |
| caaggaagaa | tgacaaaagg | ggctggagtg | gcgcttagca | gttaggactg | ntcgtgctc | 600 |
| ttgcaaggac | ctgggttcgg | ttccaggacc | cacattcttt | atggncatga | atacttcaag | 660 |
| atcccaagag | gagatctgat | gcctttttctg | gggootaang | gcattctatac | catgctgnat | 720 |

aacttaaccg accctt

736

<210> 619

<211> 261

<212> DNA

<213> Mus musculus

<400> 619

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cagaataaag | atgcttagaa | ctctagaagc | caagagactg | gcagccatgg | aatcctctgt | 60 |
| aaatctccca | gcaaggtctc | ccaaggggtg | tggagcccag | cagactacta | gcacaagcag | 120 |
| tcaactgaag | tctaaaggtg | ggcgatcaga | tgaagaogga | ccaccttcca | cccgcagacc | 180 |
| attctacaag | actagagcag | actttctcaa | gagacatcgt | taactcaata | caaagaccaa | 240 |
| gtgagagcag | caaaaaaaaa | a | | | | 261 |

<210> 620

<211> 258

<212> DNA

<213> Mus musculus

<400> 620

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| acagtgcctg | ctctggaana | tgtgactatg | acattncgat | naggaccatg | gcnnacagtc | 60 |
| atgtnaggan | acanctggng | nnenttcccc | ngencataaa | gcatnanta | catntnaaac | 120 |
| tganccnata | gganacactt | atcgataaat | cccattctgac | tcctnaatgt | ttacatagtc | 180 |
| cctgtccaca | tgggaataaag | cacacaagtt | atttcaccan | aaaagaagaa | catngcngac | 240 |
| agtcattgta | ggaaacaa | | | | | 258 |

<210> 621

<211> 113

<212> DNA

<213> Mus musculus

<400> 621

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gtcttggccg | gagaccggag | ccatgtctgt | gttatcccca | ctgtagacaa | tccttgcttc | 60 |
| ctctggacat | ctggagcagg | cccaatttga | ctgagagcct | ccccccacta | aga | 113 |

<210> 622

<211> 523

<212> DNA

<213> Mus musculus

<400> 622

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agagtctgtt | cctttgtttc | tgtgttttgg | tttgataaaa | tccaactcca | cgagtggctt | 60 |
| ttgaacttgg | aatagtggca | atctgctcaa | gctccagata | aagggaaacc | taatttgcac | 120 |
| tctttccgtg | tctgccgaaa | gactcagaaa | cggatttcca | ggactcagga | agccaaatac | 180 |
| caagtgtagg | agagaaaaag | cagcattttc | cttaccacac | ttaagcctga | agggttaagg | 240 |
| ttccaagact | aaaacatata | catttattta | atgtcagttt | tgtgttacac | aagagatcat | 300 |
| cagaaatttg | gaaatctttg | tgtttttgtg | gactgccatg | cagaagtttg | actagaaaac | 360 |
| cacaggggta | caatatactc | ataaacttga | ggccagcaat | gtagcaaaac | ccatttgntc | 420 |
| atatTTTTTT | cctgtgtctt | catacagttt | tttcagatat | aggaaagata | tctctaaggg | 480 |
| gagcaactca | aaacatttta | aattaaaaag | gaatttttaa | tta | | 523 |

<210> 623

<211> 267

<212> DNA

<213> Mus musculus

<400> 623

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| atgtgattat | ttttcttctt | caagaaatgc | ttctcggtag | ttaatacatt | acggaaggaa | 60 |
|------------|------------|------------|------------|------------|------------|----|

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccgtggagaa | gcggtacgca | aactgcacag | ttcgtgccgc | ttgagcaaaa | tagaggtcgg | 120 |
| tggaggccg | aggttgccct | ccttcgaggt | ggagaacaac | ttcgcagccc | acagccgccg | 180 |
| gtgagtgtt | caagtttggc | gggggtcttg | ctgagggtgt | tttcccgccc | ccttcctctt | 240 |
| ccccgggtt | gttttgaaaa | aaaaaaa | | | | 267 |

<210> 624
 <211> 214
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 624 | |
| cccaggggat | gccccgggtg |
| ctgagccttg | ccccgctgtg |
| cctgcttcca | accaccatt |
| aacaatgtca | cttttctttt |
| | tttaaaaaaa |
| | aaaa |
| | 60 |
| | 120 |
| | 180 |
| | 214 |

<210> 625
 <211> 129
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 625 | |
| gtttggagtc | ttctgtgaac |
| agccatccat | ctgcccata |
| ataacaaac | |
| | 60 |
| | 120 |
| | 129 |

<210> 626
 <211> 405
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 626 | |
| ctgtactgga | gctgctctgn |
| tacnccaga | gtgctgacat |
| tttatnccac | ggaancctga |
| tnggncacca | gngttagctt |
| cagctgcaca | cctgccgect |
| ctcaccaagg | tcattacctt |
| ctagtctaga | aaattgggtg |
| | aattaaaggg |
| | tttgaatcag |
| | ccccca |
| | 60 |
| | 120 |
| | 180 |
| | 240 |
| | 300 |
| | 360 |
| | 405 |

<210> 627
 <211> 105
 <212> DNA
 <213> Mus musculus

| | |
|--------------|-------------|
| <400> 627 | |
| gtcttctaag | atcaagtagg |
| tcccacaaacta | tggaataaac |
| | atgtttccta |
| | acctaataaaa |
| | aaaaa |
| | 60 |
| | 105 |

<210> 628
 <211> 426
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 628 | |
| actgagggat | cagactgaga |
| gtgaagtcac | cctgagggtg |
| ggcagtggga | tgaggaagac |
| | ctgactcagg |
| | acatggacct |
| | cattgagacc |
| | agacctgcag |
| | 60 |
| | 120 |
| | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gggatgggac | cttccagaag | tgggcatctg | tgggtgtacc | ttctggagag | gaacagagat | 240 |
| acacatgtca | tgtgcaacat | gaggggctaa | cccagcccct | tgttctaaaa | tgggaccctt | 300 |
| ctaagcacac | cattcccac | atgggaatca | ctgttggcct | gcttctcttt | ggagtttgt | 360 |
| ttactggagc | tgtggttgcc | atagtgatga | ggaagaggaa | agggtctcac | actgtaccct | 420 |
| taaaaa | | | | | | 426 |

<210> 629
 <211> 270
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 629 | | | | | | |
| cgaggaaatc | ctttacat | atgccnagag | cggtctngaa | agatccngaa | gctntggcag | 60 |
| naggataana | tcacagagga | gatcggacac | ncncangagg | ctaaccagac | cctggngnga | 120 |
| attgactggc | agcatttata | atcgctcctn | tactaanaac | ttgacttggg | gttttgtaac | 180 |
| acagctggct | tttccagaaa | gacaacagga | aataagttcg | gctgaatcta | ttttgaaata | 240 |
| aattctttat | ttaagcttta | aaaaaaaaaa | | | | 270 |

<210> 630
 <211> 195
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 630 | | | | | | |
| agactgagac | ctgtgctacc | agaagtgaca | atggaagtcc | ctcctgtgaa | gaggaaagga | 60 |
| cactgacaac | gtgtggatcc | tcaggagcaa | accaagtcag | cagacatggt | aaatatctgc | 120 |
| ttacaataaa | acactgtttc | tatccttcta | ggctctatta | aaagatgtat | ggatagttaa | 180 |
| agcataaaaa | aaaaa | | | | | 195 |

<210> 631
 <211> 105
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 631 | | | | | | |
| gtcttctaag | atcaggtagg | aaatgtgaat | tccaagaac | gtgggggaaa | atgcaaaatt | 60 |
| tcccaaaacta | tggaataaac | atgtttccta | acctaataaa | aaaaa | | 105 |

<210> 632
 <211> 272
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 632 | | | | | | |
| ctggagagac | acgtgcoccta | tgacaacagc | agaccaacca | gtgggaagat | gaactgcgac | 60 |
| gtgtgcgggg | tatcctgcat | tagcttcaac | gtcttgatgg | ttcataagcg | aagccatacc | 120 |
| ggcgaacgcc | cgttccagtg | taatcagtg | ggggcatctt | ttactcagaa | aggtaacctc | 180 |
| ctccgtcata | ttaaactggc | ncggggggaa | aaacctttta | agtggtcncc | tntgnactac | 240 |
| gcatgccana | ggagagatgc | ctcacggatt | ac | | | 272 |

<210> 633
 <211> 415
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 633 | | | | | | |
| gactgagggt | cctcagtggt | gtgctgaata | ttgcctttcc | atccattacc | agcacggggg | 60 |
| cgtgatatgc | accaggccc | acaaacagac | ggcagtcag | ctggccctgc | gggtggccga | 120 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| cgagatggat | gtgaatatcg | ggcacgaagt | cggctatgtg | attccttttg | agaactgctg | 180 |
| caccactgaa | acaatcctga | ggtactgtac | tgatgacatg | ctgcanagag | agatgatgtc | 240 |
| caaccctttc | ctgggtagct | atggcgctcat | catcttggac | gatgtccacg | agagaagcct | 300 |
| ggcgactgac | gtgctgctcg | gactccttaa | agatgtgctg | ctggcaagac | cagagctgaa | 360 |
| gctcatagtt | aactgctcgc | ctctcctcac | cagtaaactc | agttcctact | atgga | 415 |

<210> 634
 <211> 548
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 634 | | | | | | |
| ctccatccga | gcaggccggg | aaacatgccc | gccaggaaag | agctgogtng | cccctccgag | 60 |
| ttcgacgata | ccttcgcaa | aaagtctgag | gtgctcttct | gtggccgggt | gactgtggct | 120 |
| cacaagaatg | ccccaccgc | actgattgac | aagtgtatcg | agaagttcaa | ccatgtganc | 180 |
| tgtggtcgca | caacggactg | ggaagcgccc | nncgggcaag | cntcngctcc | tggcccagcc | 240 |
| catgcgcaaa | tcctctcac | ancctggant | gcgctcgctg | gccttcagga | angagttcca | 300 |
| ggacgctacc | tccgcagttn | cacctttanc | tcctntgaon | atgacataga | naaccnctc | 360 |
| atcggtgggc | acaatgtggt | tcacccacag | acatggagga | naaccgaact | atgctgtgca | 420 |
| cggtaaaatc | tgtcngtttt | ttgcagcttg | aggtctgaaa | aatctgtctt | acacatccat | 480 |
| gtttgtaaac | accctttcct | gcagaatata | ntnatattaa | agaagtcaag | aaggatgtta | 540 |
| aacaatat | | | | | | 548 |

<210> 635
 <211> 334
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 635 | | | | | | |
| gaatcccaat | gctgaagata | gtgtttgcag | gccatgagca | tctctcgtctg | atatccgtgc | 60 |
| ccttgctcat | ctaccacca | gctcagattc | tcttggaag | tgtgttagtg | ccaacaataa | 120 |
| agtcttgat | ggtgtccagg | cagaagggag | tgaagctgac | aaggccgaca | gtgtgactcg | 180 |
| ggtggcgcca | gccttctctg | agtgtgtaca | tatatgtaca | ggctgtacat | acaggggttc | 240 |
| tgaggacctg | tccttgggga | tgotgctttg | atgcctattt | tattttttta | cagaaaaaaa | 300 |
| tatgatatac | ctgtttaagt | gccttaaaaa | aaaa | | | 334 |

<210> 636
 <211> 996
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 636 | | | | | | |
| agagaggcga | acccattg | atgctgctgc | ctacgtaggc | gatgtcccca | tcctccagtt | 60 |
| gctactgatg | tcagggtgta | acgtcaacgc | taaggacaca | ctgtggctga | cccctcttca | 120 |
| tcgtgccgct | gcctcccgaa | acgagaaggt | gctggggctg | ctgttggcac | actcagcgga | 180 |
| tgtgaatgcc | cgggacaagc | tgtggcagac | accactgcat | gtggctgctg | ccaaccgggc | 240 |
| caccaagtgt | gcagaggctc | tggcacccct | gttgagcagt | ctcaatgtgg | ctgacaggag | 300 |
| cgggcgcagc | gctctacacc | atgcagtaca | cagtgggcat | cttgagacag | tgaacctgct | 360 |
| cctgaataag | ggagccagcc | tgaatgtctg | cgataaaaag | gaacggcagc | cgctgcaactg | 420 |
| ggcagctttt | ctagggcatt | tagaggtcct | gaaactgctg | gtggcaactg | gagcagacct | 480 |
| cagctgtaaa | gatcgaaagg | gctacnggct | gcttcacaca | agctgcagcc | agtggccaga | 540 |
| ttgaaattgg | tgaagcactt | gcttccgatg | ggggggccga | gaatccgatt | aancccaatg | 600 |
| ctttttggga | aaacacaagc | ttttgcacat | tngctttggc | tacctggggc | cngggatttg | 660 |
| cttgtgggct | anttcgaagc | ccttggtgga | accccccang | aaaccccaaa | tgggtggnaac | 720 |
| cccancccc | aaattngcnc | caaanggggg | cntttaaacn | tttccaacct | tggcaanttt | 780 |
| ntggncgggg | ntttngggcc | ttntttaccc | caaacngggg | ngcctttttt | ggggacontn | 840 |
| gggnaaactt | ggttaagntt | naaatnaaat | gggggggctt | ntaanogttt | naacnttacc | 900 |
| nennanttta | aatgnaaang | ggaaaaaagt | tccccctttg | nccnatnggc | ttgccaattc | 960 |

caatgggggcc ttnttttnaaa ggcggtttcc caagaa

996

<210> 637
<211> 172
<212> DNA
<213> Mus musculus

<400> 637
ctgccaaacta aggtgtctct gactacgggt cttttatattg ctacatatat atttttacaa 60
aaatgaaatc catattgtac gctatttttg tgtctgcttc gttcccatgt caacatgacc 120
tgcattcttt ttcccatcaa taaatgtgtt gtgatatttt taaaaaaaaa aa 172

<210> 638
<211> 327
<212> DNA
<213> Mus musculus

<400> 638
actgaggtcc tgaggaggc aaacaagtta gcagaaatgg aggaaccagc cctgcttcca 60
ggagagaaca ttaaagatat gggctctgtaa tgttttttgt ctgcacagct gttcattctc 120
ctgtagtgtc cagcctgtgt tctgcaagcc gagaccaga gctgttgagg gtgttcctgt 180
ctggatgttg ggaaatgtac aaattcaatg ttattctctt taaattgttg ctgaaatccg 240
tgaagagcag ttttattatt tgaattacat catttagcca ctgtgttggc tagctaaaaa 300
cattaaacaa gtgattttta ttaaagt 327

<210> 639
<211> 617
<212> DNA
<213> Mus musculus

<400> 639
gactggaccc aaaaggagag ccagtgggtgt ggtcggcaag tgggttgaca gctcgaatca 60
tccagcatga gatggatcac ttgcagggtc gcttggtcat cgacaaaatg gacagtggga 120
catttaccaa tctccactgg atggaggtga atgactaaca ctctccttga attgaggatc 180
tggaaatcca gcatgcagac taagatggtc acatctgtgc ttcagcttgg aattggttcc 240
agtccgacag tagacagtgt gtgctgggtc gagatgaaga tgatagaaat gcttgccctg 300
aaatcagatc tgacagaata cgattacagc aggactacaa atgtaccatt aaaggagtgg 360
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agacacattc taaccccaca gcttacaatt gattgataag gnaatccaga tatccaaaag 480
atttgnnttt tgagacaggg nttctntgng taccttggnt gcnnngactn actctgttna 540
caagctgcct naacttaana nattcctget ntgnactcct gactttggac tgaaggnnt 600
ncctctgtgg cttgaag 617

<210> 640
<211> 529
<212> DNA
<213> Mus musculus

<400> 640
aactttgttc taccccaaga gatgatcatt gaagtggagg gagaagatgc tgggtcactg 60
gacatcatgc ctcaggaaag cacagacttc aagattgtga ctgtggacct tncagaggag 120
ggacagagca cgtggaacaa tgcccagaga accccagaga aaaccgtgat cctggaaggc 180
cacagggacc tgtgggactt gccagctgta catggaacag aaggagccac cgcaaagcag 240
acaatcttcc atgaagaacc atcccatgga ttgaagctag aggggttggc aagagatgac 300
ccttggtctgt catcgtgtga agaagtccga gactgtaagg agcagtcggg gaaacaaccg 360
aacaagcaag aggaggtggc ctttaccag ggtagcgtg gctctcctga tactgtctac 420
aggggtcatg accctgacag gagttgcctg agtaccagcc ggccttcatt ccccatgatg 480
ccccttagaa accatttnca taaacaggcg tcacatgtta aaaaaaaaa 529

<210> 641
 <211> 106
 <212> DNA
 <213> Mus musculus

<400> 641
 aggcagatct gacaaattct ggcagttctc cctctgagga tgatgccctg ccttcaggtt 60
 ctccctggag aaagaagctc agaaagaagt gtgagaaaga aaaaaa 106

<210> 642
 <211> 638
 <212> DNA
 <213> Mus musculus

<400> 642
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 gtttccctct acatagcgaa gaccattaaa gaagcgagac cagcgaagtg ttgcacagct 120
 agtgaagacc agcaaagcat cgcataaagn cngaagcaa gagcgtcctc tctactgtctg 180
 aggggttcca tttatactct ctctgaatat catggaccct ctaacggcgt ctgctccagc 240
 aaaacatcat cacatgcctt ctctgagcttg cttcagcaaa acatcctcca aagacagctt 300
 ccagaaaaac atcatgggac acaaccaagt ttccaaaaga aactggaaat ggaaatttcc 360
 actttatcag acattttttt aaaattagtt tttaaaagtc atattagaga agcagaaatc 420
 caatgagttg cctctgattc agtctgtgca gnttgggtctc aagtatatct taattcttcc 480
 ctgtgaggac tacaagaata gtgttttaaa tgatacagct ttagacttgg agtgagtcta 540
 gagttagctg cttctcacta taggcttata taattgaaca tatacattag atctggcctg 600
 ttaaactgna atcatttggg taaaatactt tgggtattg 638

<210> 643
 <211> 147
 <212> DNA
 <213> Mus musculus

<400> 643
 agcggctgga tgacatttgc tctaccaaca acagccatgg aaaagatata agttctcaca 60
 gnagaatctg acatcancca atgantgaat ccattacatg aactgacact gcgaattcan 120
 aattcaaggt tctgtctttc caagcta 147

<210> 644
 <211> 744
 <212> DNA
 <213> Mus musculus

<400> 644
 gctcctgctc caaagagcac gctcgttccc gctggcccca tcaccaagtc gtctggttct 60
 cggttccgga acagtgtgga agggctgaat caggagattg agatcataat taaagagacg 120
 ggggagaagg aagaacagct gattccacaa gatattccag atggatcatg tgcgcctccg 180
 cccctcgcac agagaagcag cagcacacga agcattgaca cacagacccc tgggggtgca 240
 gacaagggaa gcaacaacag cagccgctct cagtctgtgt ccccaacatc ctctctcacc 300
 atctctaattg aaggcagtga ggagagcccc tgttcagctg atgatctgct tgcggatccc 360
 agagataaag agaattgaaa caattctcct ttgccaaaat atgcaacctn accaaaaact 420
 aataacagtt acatgtttta aagggaacct ccagagggtg gtgaaagggt caaagtcttt 480
 gaggaatgct cgccaaaaca acttcatgag attccagcct tttactgtcc tgacaaaaac 540
 aaggggaatt tcatttctna aagnggctct gctttctgcc tcgtgagnat nctcnaacca 600
 cttttccctt caccagatct tactcttaan ggcttttggt tacaagcctg ncccggttnc 660
 actgggatga ccaccctttt tgnttcaagg ccatnttttt tggcctncct tgtntacaaa 720
 cacaaaagca agaacgggtt tttt 744

<210> 645

<211> 105
 <212> DNA
 <213> Mus musculus

<400> 645
 gaaatgagca ggtttgcaga aagactggtg gcctaaaact gaagcctaag gagtcggtgc 60
 ttggctntgg ctgagaacat ggccaatgac attgaaaaaa aaaaa 105

<210> 646
 <211> 190
 <212> DNA
 <213> Mus musculus

<400> 646
 gcctgtcctg cctgctagtc cccacccan agacaanact ccgctccaca ccatcccacg 60
 gnagcgttaag cagcctcaac agcacaggca gcctgtcccc gaagcacagc gtcaagcagg 120
 tcagtgccca aggcctcttg tatatcattt ctcacagca ataaagagaa agctttgatc 180
 aaaaaaaaaa 190

<210> 647
 <211> 138
 <212> DNA
 <213> Mus musculus

<400> 647
 gacttctga tgtccctct cttgggttgg acctgtgtac ctcacagctg ccttgggaacc 60
 agctcaccca tgctcctacc tctttaaate tctgaataaa cagaactgcc tcctgttctt 120
 tgagtgacaa aaaaaaaaa 138

<210> 648
 <211> 346
 <212> DNA
 <213> Mus musculus

<400> 648
 ggaagtgtaa catctcccat ttttctgaca tatttgcctgc tcgagagttt aaagcccag 60
 tggactcatt tttctacata ttaggataca accctgagac aagtttgaac gttcagagtc 120
 tcgggccacc tgcttggctg actggctgct cggcttgac ggcgttgttg tacagccacc 180
 tgctttgatg gaagatttgg agttcctggc totgctttgt ggtgacctct gggtttccga 240
 gttgatttta catgcattga aatcagcaac actgctttct ctgnttatgc atttgnctct 300
 tattctcctg tcttgagaaa atacattttt ggggaaagtt aaagaa 346

<210> 649
 <211> 152
 <212> DNA
 <213> Mus musculus

<400> 649
 gactgagaat tggcacagaa agaggaggaa gaagatcctc ttgctgaaga aaaacgacta 60
 gaagaagaaa ggttggttaga ggaagagagg cagagactgc atgaagaatg gttactgagg 120
 gaagaaaagg cacaagaaga attcagggca aa 152

<210> 650
 <211> 402
 <212> DNA
 <213> Mus musculus

<400> 650

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| tggcctctgt | gaaggaaagt | ccactctagt | ccctacctgc | atatctcagc | cttgcctacc | 60 |
| tggttgcaac | attggggccaa | ctcgaattct | tcccaatctc | tatcttggct | gccagcgaga | 120 |
| tgctctcaac | aaggacctga | tgcaacagaa | tgggattggc | tatgtgttaa | atgccagcaa | 180 |
| tacctgtcca | aagcctgact | tcataacctga | atctcacttc | ctgcgagtgc | ctgtgaatga | 240 |
| cagcttttgt | gagaaaaatcc | taccatgggt | ggacaagtct | gtggatttca | ttgagaaagc | 300 |
| aaaagcctcc | aatggctgtg | tgcttatcca | ctgttanctg | ggatctctcg | ctccgtcact | 360 |
| attgctattg | cctacatcat | gaagaaggat | ggacatgtct | cc | | 402 |

<210> 651
 <211> 156
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 651 | | | | | | |
| gactgagatg | gacagtctga | ggctgagaga | gggctagtga | tttctcggac | acttgggcag | 60 |
| taggtaacgt | tatgaccgat | gaattggggc | tgaaatanag | catatatccg | atcatcaggg | 120 |
| cttctcctct | gcagctacat | gcaccccaaa | aaaaaa | | | 156 |

<210> 652
 <211> 388
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 652 | | | | | | |
| ggaagtaaaa | ggatccagag | agaagggtcat | tagtgacgaa | gatctagaat | tactgttggg | 60 |
| tcgaagtgat | ctcattgatc | aaatgaaggc | ttcaagacca | attaaaggga | agacagggat | 120 |
| attcaaaata | ctagaaaatt | ctgaagattc | cagtgtctgaa | tgtttatttt | aatgtagaac | 180 |
| taaatggctt | ttaaaaactt | tggtttacat | ccattctggg | aatttgccctg | ttggctttga | 240 |
| aatccatatt | gttcacttta | ctttttataat | atatcagttt | ttataatgta | actagtattg | 300 |
| catacttgat | gaaaattttg | ngggntttac | ctaagnttaa | aattccctata | aatttaaatt | 360 |
| tttcagtnag | tttttgggac | tgggtagt | | | | 388 |

<210> 653
 <211> 124
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 653 | | | | | | |
| ctgccacaca | gcccanggat | gcccttnctg | gtactggcac | acagtattta | ttggncnna | 60 |
| aatgactggg | attgggctct | gagcatnccn | gntccctgtc | tgccctattt | cagggcttgt | 120 |
| ccta | | | | | | 124 |

<210> 654
 <211> 403
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 654 | | | | | | |
| tcctactctg | ctgtatcatg | gaacccggga | ggaccgtcgg | aaattagtaa | agaatatcca | 60 |
| caaaagacaa | gggacactgc | agattcatcc | tgtggtggtc | acatcattog | agatcgctat | 120 |
| gcgagaccag | aatgctttac | agctttgagt | cttgggttga | tatcactagt | ctttctgaaa | 180 |
| ctgctgaaga | tattatagct | aaagagagag | aacagaatgt | tttacctatg | ctgcaccaga | 240 |
| ttttaacgcc | tttctactg | agaagactga | agtctgatgt | tgctcttgaa | gtccccctta | 300 |
| agcgagaagt | agttgtttat | gcaccacttt | gcaataaaca | agagatcttc | tatacagcta | 360 |
| ttgtgaaccg | cacaattgca | aacatgtttg | gatccccgaga | gat | | 403 |

<210> 655
 <211> 145

<212> DNA

<213> Mus musculus

<400> 655

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| cagactgagg | tgtattccag | agaacaattt | tgagatatct | ttgcttataat | ttgacattga | 60 |
| gcagtcaggg | gatttaggca | tatgaggagg | tactgtcaca | taaaacagtg | tctagtgaag | 120 |
| acgacaagaa | agagagaaaa | aaaaa | | | | 145 |

<210> 656

<211> 453

<212> DNA

<213> Mus musculus

<400> 656

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gtttgggaaa | aggggaagtaa | tgacangntg | ncacctgaac | taaatctttc | atagacnacn | 60 |
| ccntnccaga | tcttcangan | gaanggggat | atgccccang | ncncataac | taccctgtgc | 120 |
| ggggattgct | agttttacgg | acctcctgaa | ccagcgtgcc | ttctcccatc | tcctttacct | 180 |
| gctacaacta | caaanagcct | cctttttant | tcccgantac | caaaaaaggg | gganactgct | 240 |
| ttttgggcct | tggnaggggg | aaagaacaat | tgtgggtttt | aaacaagntn | tgnnccataa | 300 |
| gtnttcaacc | caggggtttt | caccagnatt | cnacataaaa | aacctggaan | agaataaacc | 360 |
| tttggaagg | ggatnaatcc | cccgaagggc | agaatanccc | cccgttcttt | gttttgcaag | 420 |
| gcccgtctct | tgggcaaagg | ggatttccca | aaa | | | 453 |

<210> 657

<211> 143

<212> DNA

<213> Mus musculus

<400> 657

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgaggaa | ttcacatgnc | gacaaaaaaa | gacatttttc | ttggtagctg | aacaaaggct | 60 |
| gaaggactgg | catnacnacg | gnggctatcc | tgagggaccg | cacatggcgt | acgatatgga | 120 |
| naacacggga | agccttacc | cat | | | | 143 |

<210> 658

<211> 507

<212> DNA

<213> Mus musculus

<400> 658

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| acctgagccc | tgggcatctc | tctagaagcg | gtgcgatcat | ggaggtggtg | ccggccgagg | 60 |
| tgaatagttt | gcttccagac | gacataatgg | acactgctat | aacgttagtg | gatgaggata | 120 |
| gtattgaggc | tgtaattgtg | tcattcccaa | ttcccatgga | gacagagctg | gaagaaattg | 180 |
| tcaacataaa | ttctaccggg | gactctacag | ccacgcccac | ttccacggaa | ccaatcacag | 240 |
| tgtacagtaa | ccacactaac | caagttgcag | tgaataccac | agttttctaa | gcagattcta | 300 |
| ataccacagt | gaaaccagca | tttccaagtg | gccttcaaaa | acttggtgct | cagactcctg | 360 |
| tgactatatc | agccaatcag | attattttaa | acaaagtatc | acagacatct | gatcttaaac | 420 |
| ttggcaatca | gacccttaaa | cccagatgga | cagaaagtta | atattaacaa | cttttgggca | 480 |
| aagtcttggt | tcaacaaatt | ggttttaa | | | | 507 |

<210> 659

<211> 154

<212> DNA

<213> Mus musculus

<400> 659

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgagaac | cctgagcctg | gaggttttct | ttccccccct | cctcctgagg | cttagttgat | 60 |
| ttggagttgt | catggcaaca | tttttagcaa | ctgtgttgct | ctacaggaag | ccttgctgaa | 120 |
| taaaataaag | aagccttgaa | catgaaaaaa | aaaa | | | 154 |

<210> 660
 <211> 280
 <212> DNA
 <213> Mus musculus

<400> 660
 gactgagctt aaattcccta ccaggccaaa ggtgaggggt cctacaattc ccatcacaaa 60
 gcttcacacc atgaagccag ctccacgctt aacacctgta aggcttgctg cagcctcccc 120
 catttgtgtca ggagccaggc ggagaatagt gcggtgcatg aantgcaaag cttgtgtgca 180
 aggagaatgt ggagtctgcc actactgtag gggacccctc tagtttctgt aaatattgaa 240
 tcagtgagtg aataaaaatg tgctaataaa tgaaaaaaaa 280

<210> 661
 <211> 126
 <212> DNA
 <213> Mus musculus

<400> 661
 gactgagcag tccccccacc agcctctgtt gtctgtgtgg tcttttccca ttgccagtcc 60
 ttggganggn tttctatttg tctgccttg agcctattaa acagcctccc ccgtgaaaaa 120
 aaaaaa 126

<210> 662
 <211> 134
 <212> DNA
 <213> Mus musculus

<400> 662
 ttcaggatcc cccggtgatg actactcttg agggncctcc ttggggggtn anctgggcnn 60
 cnntggccaa agaaaggaca aaagcttttn gggggatnan gttaatttaa agactttttg 120
 gttcaaaaaa aaaa 134

<210> 663
 <211> 565
 <212> DNA
 <213> Mus musculus

<400> 663
 aagccatgct tgttttntgg ntgnacccca ccgtctgtat gtacagctng cctccagctt 60
 ctatgacttc tttttccttc cctagctggc ttgagccatc ccgagaaacc catctctccc 120
 aaagggaanaa cccacataga aagcagagag gaaattntac aggccacacc atagggggcc 180
 attcagagtc agagccaagg ntccccaaa ttgatgacca aagtagtttt cctgtatctt 240
 cagtttgctt acaaagtagg atgccattga tgccttacct acctaggtgc agaggccctc 300
 aattacctnc tcacacggcc tggaagcccc gatccccctc gtcagcatct tgccctcttg 360
 cccctctagc atcagatgtg cttgggtcact tacaccaggc catgacctta ttctagaatg 420
 ctctatgtct caaggtgcat gcctagcgaa ctgggctctc tggagtatna accagatgtt 480
 taaatacggg ctacagttacc tacacccttt ttttgtcaaa attatccact tganatattt 540
 aagttcagag gaaaagttaa cgggc 565

<210> 664
 <211> 446
 <212> DNA
 <213> Mus musculus

<400> 664
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 nggatgctat aggggcacag gaggctaaga tgctgacctg aggggatcgg ggcttccagg 120
 ccgcgtgagg aggtaattga gggcctctgc acctaggtag gtaaggcatc aatggcatcc 180

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tactttgtaa | gcaaactgaa | gatacaggaa | aactactttg | gtcatcaatt | tgggggagcc | 240 |
| ttggctctga | ctcttaatgg | ccccctatgg | tgtggcctgt | anaatttcnc | tctctgcttt | 300 |
| ttatgtgggt | tttccctttg | cggagagatg | gngttttttc | cggnatggct | tcaanccagc | 360 |
| tagcggaaag | ggaaaagana | aagttcataa | aaaancctgg | agggcganct | tgtaccanac | 420 |
| cagaccgggt | gggggtacca | accag | | | | 446 |

<210> 665
 <211> 105
 <212> DNA
 <213> Mus musculus

| | | |
|------------|------------|-------------|
| <400> 665 | | |
| tagctggcct | acaactcacc | atgtatgcc |
| gtacctgtct | ctctgcttct | 60 |
| tgattgttgg | gattaaagat | gtgtntctaca |
| tcagcaaaaa | aaaaa | 105 |

<210> 666
 <211> 243
 <212> DNA
 <213> Mus musculus

| | | |
|------------|-------------|------------|
| <400> 666 | | |
| cttctcttct | attgacaagt | taccagcac |
| cgttggttct | cagttgtttg | ttttgaatga |
| tactgatctt | tgcgtttccgt | gttacagact |
| tgactccag | gataatgagg | gtttaaatta |
| tccagatgct | cattcttttg | cagtgncata |
| tttcaaaaat | ttcgtanttt | aagcctttaa |
| tttaaaaagc | ctgcttttaa | tactgcctgt |
| gagtaaacc | ttgataaaaa | gacatgtgaa |
| aaa | | 243 |

<210> 667
 <211> 172
 <212> DNA
 <213> Mus musculus

| | | |
|------------|-------------|------------|
| <400> 667 | | |
| ctcctgcaca | cacgaagaaa | gcaggatcgc |
| ctcactgtgc | tgccctccaag | tgttgcccc |
| aaataccact | gaccaaaaaag | caggtgtttg |
| cggatcagtg | ccccctggaa | gtgagtcata |
| ggcattgttc | aagaagggaag | cagctaagac |
| aacatgaatg | aacaaaaaaa | aa |
| | | 172 |

<210> 668
 <211> 115
 <212> DNA
 <213> Mus musculus

| | | |
|------------|------------|------------|
| <400> 668 | | |
| gactgaggat | tctgatgctt | catgacatgc |
| catcatgtag | agcaataatg | aacactggcc |
| tattttggac | tangcctgga | caattttggg |
| accctccgtc | tcaaaggaaa | aaaaa |
| | | 115 |

<210> 669
 <211> 346
 <212> DNA
 <213> Mus musculus

| | | |
|------------|------------|------------|
| <400> 669 | | |
| actgtatggg | ggcagccaca | gcattccaaa |
| ctcccaggnc | cccagttctg | tctccggagc |
| ggacagcccc | ccctccagtc | ccaccggaca |
| caactgggag | atgaattatc | aagaggcggc |
| aatctacctc | caggaaggtc | aaaacaacng |
| acaagttctt | caccaccccc | aaggatgcca |
| nagcgtctgn | ggcctacctc | ttngtccaca |
| accactnttt | ctacatgatg | gagctgtctc |
| cggcoctgct | cctgctgctg | ctgtcgtctg |
| gcaagtcctc | cgtgtctccc | gtgctcaagc |
| tggaactttt | acgtccacgc | cagctggaa |
| ctctttgccc | tcatgg | |
| | | 346 |

<210> 670
 <211> 156
 <212> DNA
 <213> Mus musculus

<400> 670
 gacttggcaa gcctgaggag caccanaag ctgggacana gccannctga ncccgagcag 60
 aactgcagc ccaggagggg ctgccagggc tcctcgtgaa tcctgacaac accgccatca 120
 ttaaacattg ctttctcttt cctccaaaaa aaaaaa 156

<210> 671
 <211> 267
 <212> DNA
 <213> Mus musculus

<400> 671
 gactgagatt ccagaatttg ataacttgta cctggatatg aatgggatta tacatcagtg 60
 ttcccatcct aatgatgatg atgttcactt cagaatttca gatgacaaaa tctttactga 120
 catttttcac tacttggagg tgttgtttcg aattattaaa cctaggaaaag tgttctttat 180
 ggctgttgac ggtgtggctc ctgcagcaaa aatgaaccag caacgcggga ggcgttttag 240
 gtcagccaag gaggcagaaa aaaaaa 267

<210> 672
 <211> 583
 <212> DNA
 <213> Mus musculus

<400> 672
 ccagtgcagg tgcattggtac canatggatg tcactagntg acctncccaa agcctgtctg 60
 aactcgagt canactnatt nttctcntg taaatgtgaa agngcacctt ctctgcgng 120
 ctacaaactc aagcttgatc tgttcggggc atgcaagggt ggcnnggtgg gccagctgac 180
 ttacgacana cctgaagggc acagactttt gattttgatt actgtaaata tttggnagtc 240
 tgtgcttctt gngttaaaaa taaattgnta agaccactaa atacctaaaa gaaatctgtc 300
 ctaagngggg aaaacttcgg aaaaccacaca acgagaagaa gtccgtcctg atgctgatcc 360
 tctgcagctc cgctgtgcga gccctggagc tcatcaggtc tctgacagca ttcaaaggag 420
 atgccaaaag ttatgaaatt atttgcaaaa catataaagg gtccangaac aggtaaaagt 480
 tgccctggaga aancgtgnga taccacctgg gtgtggggga cntccgggga agaattnaaa 540
 nacttggta aaacnagaat gggctccatt tgaaccctt aaa 583

<210> 673
 <211> 212
 <212> DNA
 <213> Mus musculus

<400> 673
 tgtggaactc taaaaggtag ngacaggaag catggcttgg atccatatat ntactgcctc 60
 gaatcgatga attcgagctc ggtacccggg gatcngaagt tcctattcgg aagntcctat 120
 tctctataac cgnatacgga acttctcgac ctgcagagca tgcaagcttc gacctngaca 180
 gtctganaag gantgagggc tggatatggg ga 212

<210> 674
 <211> 432
 <212> DNA
 <213> Mus musculus

<400> 674
 atagactgag gttggagcag ccctacttca acgccaacgc tcagttcttc caggcactgg 60
 gccagtgtc gtctctgcag cgctgtgcc tggatatctc cagcggcacc ctgcagccag 120

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| atgccgtgct | ggcctttatg | gcccgttgcc | tgcaggctcg | catgtgtcac | atgttcaccg | 180 |
| gagaatccct | taccacctgc | aagagcctgc | agcagtcgct | cctccggagt | ttccaggccg | 240 |
| agaggcccg | gttgaacgtc | gtcatcttcc | cctgtctcca | cgagggcctg | acagatgtca | 300 |
| tccgagatgt | ccccatgctg | cacctggatg | agatnancct | gntcaaaaanc | cgtgtggntg | 360 |
| atgaaccggc | caacctatgg | tggtgaaagg | accttggcag | ccggccaaca | agtcntgccg | 420 |
| cacgtcacca | at | | | | | 432 |

<210> 675
 <211> 342
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-----|
| <400> 675 | | | | | | |
| agactgagtc | gagatttctt | atttatcggt | atcctggaaa | gccaccaact | caagtccacag | 60 |
| ataatggctt | tgaagacaag | attattctct | gttattcaaa | taatggccat | tatgattctg | 120 |
| tatattcaaa | agaatttcaa | tcaactgcag | gaatttgtca | agctatatta | tatgaacttc | 180 |
| tttataaaga | tgtatttggt | gtggatgaag | aaacggtgaa | aactgcagtc | gatttatttc | 240 |
| gaagtgggtc | caggagaaaac | aaacacccatg | ctttggctgc | ctgatgtaat | ctctctgggt | 300 |
| tgaggcatta | ttaaaagtgt | gatttgtgcc | taaaaaaaaa | aa | | 342 |

<210> 676
 <211> 240
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|--------------|-----|
| <400> 676 | | | | | | |
| gacgtctggg | gagctcctgc | attaagtcaa | gaactgatnc | ccctgtacac | cgaanttgag | 60 |
| accggtcaca | gctcangcgg | ccctagacgc | ttctggcaca | gggatggagg | ctggctgggtc | 120 |
| actgctgctt | tgaagatccc | aaacatcttt | gaacagggtga | gaagaaacta | cttttctctc | 180 |
| tcttttagacc | tctgaccacg | aagggatctg | aacaaggaat | ctgaatttaa | aaaaaaaaagaa | 240 |

<210> 677
 <211> 292
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 677 | | | | | | |
| gactgagctt | tctccagacc | agatcgtctt | gcttttggag | tggctcttag | agcagaagac | 60 |
| gctgagccct | cagacactgc | actgtctcca | gcagacttac | catctcccgg | agcaggatgc | 120 |
| agagggacgt | cctgactaca | tacatgtact | gtggactgcc | cagcaatcga | tgggtgtgaaa | 180 |
| gccgtccttc | ctctgaagaa | ctctctgctt | gatctgtcct | cagagcccga | ccatgctgct | 240 |
| ctccgtctgt | ggcattaata | actgaataaa | tctcttacc | aaagaaaaaa | aa | 292 |

<210> 678
 <211> 454
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| <400> 678 | | | | | | |
| gggcaaaaaac | caatccagac | ctgcaactgcc | agtgaggaat | acctgaccta | cacctaaagg | 60 |
| gacaaaggag | tcaaggagtg | tgtctcgggag | ccatgtgcac | accgtccatc | ctgtgtgcag | 120 |
| tgctgaggat | gccgtctgaa | cgaggggagcc | agagaacatt | gcagcatccg | tcaccgcgag | 180 |
| ctgtgactct | gcagacttac | agactaaaat | cacagcagga | tgactgttgg | atcctgcctc | 240 |
| accatcatct | cccgttcttt | cctatgtgca | ttttctacag | aaagggttatt | actgaaaagg | 300 |
| gagttggagg | aagaggatgc | tattttaatct | ccaaatagcc | agccgcgtgt | tccacaaaac | 360 |
| tcttgcccaa | gtggccatta | ctgttcagcc | tggacctagg | aaactgctat | ctttttgtcc | 420 |
| actgggagta | cccaaaatct | ccttctggga | caga | | | 454 |

<210> 679
 <211> 382
 <212> DNA
 <213> Mus musculus

<400> 679
 cagaagagaa gcttatgtna taataacacc acttagaanc aaaaaagntg atagagcaaa 60
 gatgtataga ctacagtctc tctattgaag gaatatcgga ctttttcaaa gcaaagcatc 120
 aagaagaaaag tgactcagat atacatggaa ctccaagttc taccagtaag tctcaagaga 180
 cctttgaaca tagagtggga tttgaaggca ataccaagga ggactgcaat gaatgtgaca 240
 taatcactgc cagacatatt cagatacctt gcccgaaaag tatacaaatg ctnaccaatg 300
 attttatgaa aaagaacnng ttgccctcaa aactgcagaa aactgaaaat cnaatagggt 360
 gtatcacagt attgccggtc ct 382

<210> 680
 <211> 770
 <212> DNA
 <213> Mus musculus

<400> 680
 actgagggaa caagactggc agacttgccg aaagaaacgt catgnggtta tgtancgtgt 60
 tctngannaa ggacttcgga gtcacctact aggagtcttc cctccctccc tccctcttnc 120
 ctgocgccag catcatggcc gntcgcctga tgaagcgggtg tacctgcctg cttcgagagg 180
 ctacccgcct agttcctact gttgccccag ttggccgact gagacttgct ggagtgtcct 240
 gcaagacttt gacgtcctct gtcagttccc cctcctcggtg ctcttggtcg gagctgttgg 300
 ggaaagagca ggtgtttact ccgtaccag agcaccaaga gctggacttc ctcatlgaga 360
 aagcctccag accagagcag ctgctggagc tgctgggttc tgaccatagc ctgaccacca 420
 atcacggggc cctcctcctc atccgcctgt cctacctgct gtctgagaag ccaaaggaaa 480
 aggccttgct tgcaaaggat gctcgttttc agcgacttgt caagctagtt gatagtcagg 540
 aacctgggtan gnacttcaga gacaagcagc ccaacactgg cctgctatca ggagtagagg 600
 agatgaacct gcttcttcca gttccttggg acttntctgnt nacaagcaga ncctttgact 660
 taaatcccta ccaatctttt naanatctgg gtgnccattt ggacttccnt tgaagccaga 720
 aananaatcc anattggtna atggaggnc ctaaacctag gacttccttt 770

<210> 681
 <211> 408
 <212> DNA
 <213> Mus musculus

<400> 681
 gactgagtct tgttttcaga ctggactcag gctggccttg aactcccagt gtagctgagg 60
 atgacctttc gctcatggac ttctgttttc cacttcctaa gtgctgggat tccagggtccg 120
 tatcacctgt atgtatctta ctcatatcac cgcattctct gagtaccat cccctttata 180
 atagcatctt tggcttgggc tgaggcccca gtcagcagca tatctatttc tttttgctta 240
 tottcccatg ttttctgtat tgaaactatt cccagtgtat agtgttcaca tgaagtcttt 300
 tctcacttgg tacctccctc catcatcaag ttgctgagtg aaatgaacaa tataacgggtc 360
 ccctaactct caggaggagc tttttaaata aatgtgtttt aaaatcat 408

<210> 682
 <211> 388
 <212> DNA
 <213> Mus musculus

<400> 682
 gaggagcctg aagctaccgt ggactctgct gtggcgctctt ggccccagc tgccggtacct 60
 cccagtgag aagtccacg agtcttacag caggtagcgt ccgctcgttg gcgccccagg 120
 acagttttgc attagaacgt tatcattcat ttcaacctta cctaaccgat agccgtagcc 180
 ctccgtgctc ttggtggacg tggtaagcaa gcgctctgcc taagccgagc cttgcgctat 240

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttgtaaaatt | cccaacgctt | gtcctttttt | agactcgaca | gttctgaaca | gggcgtgtga | 300 |
| tgggggtgtg | ggagggtaga | ggtcaaggct | ggccagttag | attgtctggc | tttttctttt | 360 |
| taaataaatt | agctcactta | aaaaaaaa | | | | 388 |

<210> 683
 <211> 226
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 683 | | | | | | |
| ccagcagact | ttaccctttt | ggccagtttt | ggagttttcc | tttgccggaa | ggttggatga | 60 |
| aggaaagaga | cctccagcct | cagcgtttctn | ctcacattct | gagaggaaa | gaggaagagg | 120 |
| gccatgctgt | gnggnccaag | gctggctttg | cccggggaag | gagccaaaaa | ctcccgggga | 180 |
| aaatgatgga | agatggaata | aatcaataaa | atcagaccaa | acaaga | | 226 |

<210> 684
 <211> 206
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 684 | | | | | | |
| ggtctagggt | ggtctggaag | aagatgtgta | gctgatgatg | accctccatc | agcttacgat | 60 |
| cctcctgcct | cacctcccag | gggctgagat | gacatccacg | tgtacccatg | gctttgtgcg | 120 |
| tgaaccacca | gcactgtatg | gcgctacctc | cacagccata | aaatgctaac | attttaataa | 180 |
| atttttagct | aattgaaaaa | aaaaaa | | | | 206 |

<210> 685
 <211> 210
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 685 | | | | | | |
| gataagaacc | tattacatit | gttttctata | aatggaaagt | atctgggggc | tcaagtcctg | 60 |
| agtgaacaaa | tatcagacat | gtgcataaatt | ggagaacaca | ttatcactgg | cagcttacaa | 120 |
| gggctcctgt | ctataanaga | gtccacacgc | ttgaagctca | gcgtcactcc | attanccatg | 180 |
| cgannaccta | tccactgcgt | tttataaacct | | | | 210 |

<210> 686
 <211> 338
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 686 | | | | | | |
| atggttgtaa | gctgctgtgt | gtgctgggaa | ctgaatcgag | tcctctggaa | gaacagcagt | 60 |
| gctcttaacc | ctgagtcac | tctgccccat | cctgtatatg | taaagccctg | ccttggtcct | 120 |
| tgcagactga | tgggttcaga | agacacttgt | gtttcttggc | ttaaacactt | ctcctaaatt | 180 |
| ccaggtcctg | cacactctaa | gaaggaaact | ttgagtttcc | ataccagtcc | actgtctccc | 240 |
| cctcctggac | agccagaacc | ttgagagccc | ggctatgcag | tcttgtttgt | ttgcccacct | 300 |
| tactgtcaat | aaaggtgatg | ccatcctaaa | aaaaaaaa | | | 338 |

<210> 687
 <211> 371
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 687 | | | | | | |
| agatctacct | gcctctgctg | atgttcctnt | ggcttggtgct | ggctgangcc | agannagggc | 60 |
| gtcagatgct | caggancnan | acacacttac | tgacagctgn | naatctgctc | tttgggtggc | 120 |

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| tggnnnntnca | anagtannaa | aggcnnttaa | gnnttcttaa | ccncagangn | taggnngctng | 180 |
| atganncctg | gcactcnggt | ttgngtggac | ctagggagag | gtttccactc | tgcctttccc | 240 |
| caaaactgat | tgcattctga | gatctcagca | ttgagaccct | taaaaagctc | cacctgcagt | 300 |
| tagttagaaa | cttggtgtcc | tgtgggagtc | aaggaaaatc | ctccncccct | aaaatatttg | 360 |
| aaatttttat | t | | | | | 371 |

<210> 688
 <211> 424
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-----|
| <400> 688 | | | | | | |
| ctgaggtggc | tgggtgatagc | agttgggctg | gtgagagcat | acctgggctaa | ggggagctac | 60 |
| catagccctt | attattcaat | agaaaggcct | ttgaagtctc | tccagacagg | agccttactg | 120 |
| gagattttac | attgtgctat | agggattgtg | ccatcttctg | ttgtcctgac | ttctttccag | 180 |
| gngatgtcaa | gagttttcct | aatatgggca | gtgacacata | gtgtcaaaga | ggtgcagagt | 240 |
| gaanacagt | tacttctgtt | tgtcattgcc | tggaacaatca | cggaaattat | cccgttactc | 300 |
| cttttacaca | ttcagttctat | taaaccatct | gccttatatc | atcaaattgg | ccaaggtaga | 360 |
| cactttttca | ttcnnggctg | gaccccaaag | gggagtgacn | gggagaagct | cctcacaata | 420 |
| tacc | | | | | | 424 |

<210> 689
 <211> 257
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 689 | | | | | | |
| gggagccaga | cacccaanga | gaatctactg | aaactacagc | ttgctaangt | tgtcttaaca | 60 |
| aaagatagaa | gctcaacttg | acaagattcg | tctggatccc | agggtaatgc | angacaaacc | 120 |
| cacaccattt | tncatctgtg | cgcacataca | agcatgnnn | tgagccagta | agcancgagg | 180 |
| atggtaaagc | caggtgttng | acagcaganc | gtancatcat | tttctttaca | taattttatt | 240 |
| gtttctagac | aagatca | | | | | 257 |

<210> 690
 <211> 411
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 690 | | | | | | |
| attcttacta | acggattttg | ctgcagcgca | cttccgaccc | aatctagagc | atgcagagtt | 60 |
| ctaccataaa | tatgaccggc | ggtggcagga | aacatctgtg | gtacatgcc | gaagaataca | 120 |
| tcagacaggg | aagactttcc | gttaaaactg | atgtctacag | cttcggaatc | gtgatcatgg | 180 |
| aggttctaac | gggctgcaaa | gtgggtgctg | atgacccgaa | acacgttcag | ctgcgggacc | 240 |
| tcctcatgga | actgatggag | aaaagaggcc | tagactcctg | cctgtccttc | ttagacagga | 300 |
| agataccacc | ctgtcctogg | aacttctctg | caaagctctt | ctctctggcg | ggcccgggtg | 360 |
| ggtggcaacc | aangccaagt | ttaagaccca | cgaatggacc | gaaaggtcct | t | 411 |

<210> 691
 <211> 657
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 691 | | | | | | |
| gagctttgag | attcttctnc | ggggatcggc | cataaaaaga | cagaataaaa | cgcacgggtg | 60 |
| ttgggtccgt | ttgttcggat | cctcgaggcg | cgccatttaa | atggcgcgcc | ggccagcgag | 120 |
| gccggnaccc | aattcgccct | atagggaaaa | tgtgaactga | tagttaacca | agccacagag | 180 |
| agctctgtgg | ggagagacca | ggtgacctca | tgatgtccct | cagtgtctga | ggtctggaga | 240 |
| aactgaccac | agctcatag | tcaggtgacc | aacggaggca | ctgactaatc | angattgtag | 300 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| tactgtgact | gtggggatca | ttaagggctt | aggggtgacc | cgcaagcctg | gagcttaggg | 360 |
| gcctagacat | ttgccacttt | gatacaaagg | ggtggtcagc | attctgtctg | tctattntt | 420 |
| ttccaagccc | ccctggtttc | cccgtccttg | ccgccttnct | tttttagggg | ccttctctta | 480 |
| ccataagcct | tgganctggc | cttgaacttt | ttttttgcca | gaaccggggg | cttgaccttg | 540 |
| ggaagctnac | aggcnagntc | ntatcttacc | ntgnctgttg | tttctgaang | ggtttggggg | 600 |
| tngcaannnt | tacccccang | cttccttggc | ccccntttt | ccattaaaaac | aaacccc | 657 |

<210> 692
 <211> 141
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 692 | | | | | | |
| ggtcctctct | tatggcctgt | ccatgagctc | ctgccttgac | ttccctncat | gatngactat | 60 |
| aaactgtcag | ctttgagtct | cgatnaagaa | cacagatnaa | gatggaacaa | ttaccttttc | 120 |
| ggnacccggg | caccacttgt | g | | | | 141 |

<210> 693
 <211> 544
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 693 | | | | | | |
| aactgagttg | aagcctgaga | caagacaatc | ccagagagat | gaagtgnatg | accnaataac | 60 |
| acctgctctg | tgaggaaaac | cactgcacct | gagaaacggt | gttgccagtg | ttgctgcttg | 120 |
| tgatacanat | ggaaaggagc | ccgggaatcc | attggacagg | ctcttctccc | tgagcagca | 180 |
| agcttctatc | ttacaaagtg | ctgaatacac | cttctgataa | agaactggaa | gctttcaggt | 240 |
| tgcttcgagg | aaggaaagtc | ccgtcaatat | tgtanaacac | aagaaagaaa | tttgggccgt | 300 |
| ttcanangtt | ggagaatttg | atagacgtgc | cctttgatcc | aatataaaaac | tgctgttgaa | 360 |
| gttgtaactc | cattctctgt | cngagaaca | gacggaggaa | aaaagtcnca | gggagaaagt | 420 |
| ggctgcttga | naaangttca | ttcaaanccc | nggggttgan | ccaagaaaan | actttaangg | 480 |
| gcagcttaaa | naanattcgc | atcttttttg | nttttttgna | cttccgaaaa | aattgcattg | 540 |
| ggct | | | | | | 544 |

<210> 694
 <211> 265
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 694 | | | | | | |
| agactgatga | atgctgacca | gtgagatgcc | agcctgcgtg | tgaagatcct | acagcagaag | 60 |
| tgcatggcca | gtgacacaag | aacttgcggt | agatgccagg | acttggnagg | tgggncttga | 120 |
| tccctnaaga | ctctgcactn | acacncaag | acntaatnnn | tnatnactnt | gncntccan | 180 |
| cccaagcatn | tacnanttna | ntgcttttnt | tagtactggg | atgtttgana | tggggtctat | 240 |
| ntacttgtnt | cttgctgtcc | ctatc | | | | 265 |

<210> 695
 <211> 132
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 695 | | | | | | |
| tgaggaactc | tcaaaggntc | ggacaaggna | agcatggcnt | ggttccatat | atctactgcc | 60 |
| tchnaatngat | gaattcgagc | tccgtacccg | gggatcgaag | ntnctatttg | gaagtncccta | 120 |
| ttctctagaa | ag | | | | | 132 |

<210> 696
 <211> 514

<212> DNA

<213> Mus musculus

<400> 696

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| gcctcctgct | gctcctatnt | gtgggattga | tcathaccta | tgngatgctg | annanccaaa | 60 |
| agataaccnn | ganggcttag | agaaggtnca | gcaaggatga | ggctgtangg | gccttctcca | 120 |
| tatctcctcc | anaanaggna | ccaagggtca | cagnttacia | gatggtnaag | ctggctgcac | 180 |
| tnagccctc | tttgggacat | ggggctgtat | tcttntcatt | ttgacaacct | ggatccctnt | 240 |
| ctntnttgg | catcctttta | gaagccaana | gaaagggtgg | ttgtgaagcc | tntnactttc | 300 |
| cttatgctca | gangctnaac | attgctngtt | ggctcctgtcc | atctcacagc | taaagctccc | 360 |
| tgtcncttcc | accgagactc | tnctcttacc | tnntctctct | accacttgct | taanngattg | 420 |
| acatgccttc | acctctntgt | ccagaactgt | acngttacat | ggcagctctt | ccctananac | 480 |
| actttccatc | ttinatgaaga | cttctggacc | cagg | | | 514 |

<210> 697

<211> 101

<212> DNA

<213> Mus musculus

<400> 697

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| gaccactaga | caggagatgc | tgccaagtgc | cccagacggg | atcaagactc | caatgacaac | 60 |
| cataagattc | cctaaagcta | agacactgca | aagaaaaaaaa | a | | 101 |

<210> 698

<211> 306

<212> DNA

<213> Mus musculus

<400> 698

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| agactggcct | cttgacttgg | atttcccagt | cttcacaagc | acaagacaaa | cacatttctg | 60 |
| ttcattataa | atcactctgc | tcagacatg | tggttacact | ggaacaagat | ggaccaagac | 120 |
| aggcaacgtc | cttacaagaa | cctcaacgtg | aagacccatg | ctttgctttg | ctttgtcttc | 180 |
| caagatgatg | cttactcagt | ggccaatact | caacacaggt | agaaaccaat | aaatcagtga | 240 |
| attagcacat | ttgtggtaaa | caaattgtatc | aataaaaatta | aattgtatctg | tagatgaaaa | 300 |
| aaaaaa | | | | | | 306 |

<210> 699

<211> 359

<212> DNA

<213> Mus musculus

<400> 699

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|------------|-----|
| ggtcttgggtg | gataccagtt | ctgttttcgag | taacactgct | aaccctgaga | atgagtcaga | 60 |
| agagcagtct | tcaccccccga | ggagaaggaa | aagacagtgc | gcccctctca | atctgacaga | 120 |
| gccgagcctt | aaaaggcagg | tgngnnnatg | nnnttaatgn | gcttnngagg | acnnttntgc | 180 |
| ctggnttagn | actngaacac | tnccgaannt | cangnncgcn | gatgantctg | ntngacagtg | 240 |
| ggancctgg | cnaattang | ncacgatgan | ccctttttct | gcgncctttct | ctantattaa | 300 |
| annaantcag | ctttcgttta | atttctatct | tactactgtc | attttaaaac | ctttaattg | 359 |

<210> 700

<211> 381

<212> DNA

<213> Mus musculus

<400> 700

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gactgagatt | taggaccgat | aagcctcaat | tggtttgagg | agctttcctc | agaagcccc | 60 |
| ccatacaatt | ctgaacctcc | ggaggaatct | gagtataagc | cccacggtta | tgaaccacag | 120 |
| ctgttttaaaa | caccacagag | gaatcccccc | taccatcagt | ttgcttcaac | tccaataatg | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttcaaagaac | gaagtcaaac | tctaccactg | gaccagtgcg | ctttcagaga | attagggan | 240 |
| naggtngng | gggggnaca | tgctttaat | nntagnacta | aaaaggcaga | ggnnccgtgg | 300 |
| ggctctctga | gttatgaggn | cctntngctt | tanttatcan | ggacgaggac | tgccaagagc | 360 |
| tgcatactgg | agagatgctt | t | | | | 381 |

<210> 701
 <211> 274
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 701 | | | | | | |
| gactgagggg | aggcctcaaa | aatgagaaga | ttctattntt | ggatctgcc | gcaactggggc | 60 |
| tgtctctgca | ggcctggctc | ggaataccca | cacctagaat | ttccaagagc | tggcaggata | 120 |
| atgggcgccc | aaagctgttc | acatctcaag | tctccggaac | ccaggacctt | aggtggtaga | 180 |
| ctgcaggatc | aatatgagta | tcagaggcag | cagcaggatg | cgatgctctg | tgtgagcccc | 240 |
| catgacatcg | tgagatgcc | ggaactggaa | ggtg | | | 274 |

<210> 702
 <211> 416
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 702 | | | | | | |
| actgagattt | gaggagggga | aaatatgatg | gtgtgaagat | cctcttagcc | atcaciaaaga | 60 |
| tatggcaggc | gtgtgaagga | caattgtgtg | cattcattag | ctgcttccgc | caagcaagaa | 120 |
| ttgtcatcaa | aaggaagaaa | ttaccagcgc | tgctacattt | aaactcagcc | tgggccagca | 180 |
| gccatgagca | gtggccacag | tgaaccttgg | aggccactag | gcaggngnga | aagnttggag | 240 |
| ctacattccn | gcnagncttt | ggatcctgnn | ttgggtatnc | ccataatntg | nnttggcaga | 300 |
| tagaagcaaa | gctcaacatc | cccaggatgc | ctgcatactc | ggttggaac | tcaactccac | 360 |
| tccatttact | tggtgtactc | ttcaggggtc | gtgagatgcc | atgacttgga | aaggtg | 416 |

<210> 703
 <211> 127
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 703 | | | | | | |
| actgagctgg | gatgaaagca | gctccattag | cagtgggctc | agcgatgcct | ccgtnagann | 60 |
| ccnntantag | gagggngatg | ccagctnctn | acccgacgtg | agatgccagg | acttggaagg | 120 |
| tgaaaaa | | | | | | 127 |

<210> 704
 <211> 434
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 704 | | | | | | |
| agactgagac | cccctgtgat | gcttcctgac | tgatcatggt | ataagtgtgc | ccggaatcca | 60 |
| aaggcagcat | atnctgtgga | agaattgtct | tcatcatgga | gagtcaacag | gatgaagctg | 120 |
| ttcaaaccac | aggagcatca | acttctagcg | atgcccaaga | ccaggagct | gaaaaggag | 180 |
| ccaagaataa | gacaactgag | gcaacagaag | gaccaacatc | agagcctccc | ttatcaggcc | 240 |
| caggtaggct | gaagaaaact | gccatgaaac | tctttgggtg | caagaaggga | atctgtactc | 300 |
| tgcctagttt | ctttgggggt | ggccaaacaa | aggttctggg | aaagtcagct | cttagaaaaa | 360 |
| gtctaaacaa | gagtnagact | cacgatngtc | taagtgaac | cgtcttcang | gaccttnaaa | 420 |
| attttgtcat | ttga | | | | | 434 |

<210> 705
 <211> 444

<212> DNA
<213> Mus musculus

<400> 705
agactgagaa agaactctgc aacatgatac ttgattgctg tgcccaacaa aggacctatg 60
aaaaattttt tggcttgnta gctgggcggn tttgtatgct gaaaaangga tacntgggat 120
cntttggaan ganattcaag ggaccaggac caaccnttc cttcgttana gaacaaccaa 180
atggagaaaag gtgcttaaaa tggttggctt cccctttatt cccagaatt cacttcccgt 240
gggagggtggn tcttcgaatg gtatnaaaac tggagtggaa agaagacccc cgaacattcg 300
tntaaatccg aaattttttt gtcnaagaat ctttctttcc aggaacctgg ngtggaaata 360
ccattgggggt cnttccctaa aacctggaat gccganggtt gnaagggatg aaaactttctt 420
ccagcccttt cgtgaggatg ccca 444

<210> 706
<211> 264
<212> DNA
<213> Mus musculus

<400> 706
ttcttggtgga actctcnnag gtcangacag gatctgtgta cncaanngat acgaacggga 60
cggcacggac gggantccac aaggtangaa gcctgcgcgc nnagatgccca cgacttnaaa 120
nncgggacca gtccgacagt canggccgnc gccgcgcnncg acgtaancca cncgcgcaga 180
aacggacgcc gcggtcaaga tgnctntgtc atgcnaacg ggacgcacgg acgcacggac 240
ggacttcaaa aggtaggaag cctg 264

<210> 707
<211> 106
<212> DNA
<213> Mus musculus

<400> 707
ctccatcact atacggggaga tgotgncang ngccccagac ngtatcaana ctccaatgac 60
aaccatanga ttccctaaag ctaaagacac tgcttaaaaa ataaaa 106

<210> 708
<211> 205
<212> DNA
<213> Mus musculus

<400> 708
aactgagccc ggactttcgc gacgccttcc gtcgtcttct gtgtatgcta cgggtggccgt 60
ggaccggagg agccacgcgc agtcaccttc ccagccagcc ctggttgaagc caggcagagt 120
ccaccgctca acaggtttga tggctatgaa ggtgcgcgtc cgtttccacac gtgaagggcc 180
gtgagatgcc aggacttga ggtgg 205

<210> 709
<211> 188
<212> DNA
<213> Mus musculus

<400> 709
ttaacacact gaggggtctga catggctcac cngacnncta gtgcagnngt tgotcctggg 60
ganctggatg gtcnnactgn gctcaaattc agacctactc ggnccacgga ctgaacttnt 120
caatgtctgc gtganatgcc agggactnng aaggtgggac aacgtgagat gccaggactt 180
ggaagggtg 188

<210> 710
<211> 242

<212> DNA
<213> Mus musculus

<400> 710
actgaggtgg ggtctttcag agtcttcctg tccaagacca gtgactgcct gcttccaate 60
tgtgggtcccc gggacagctg agcttgctcc ggcagcagag agactctgga gggcttgctg 120
ggaagtccgg cccgctcggc tatgattgac ggcagcggct tccaatcgag aagcttctcc 180
acttcctgtt tccaggagca gggaaaagcg ccagaagtcg gagatgccag gacttggagg 240
tg 242

<210> 711
<211> 312
<212> DNA
<213> Mus musculus

<400> 711
cctaccctga ctgaggtatc cccaggcatc atctattgac ggagcngac gatcnacacg 60
cttaactntg aaccaggata cattnatgct aggctaccac atgtcggngg gaagggnat 120
ngaggacncc atgtnacant cctcgagang gcggtctcca ggacgccggg ngangncnng 180
nontcannna caccantagc agcantggca gtggccanaa ggcngnagga acagacaaaa 240
gtaccgcggt ggcgcgccacc acggcgccga cctacgtggc anacgatgcc ccacccccctg 300
agcgctcgtga ga 312

<210> 712
<211> 408
<212> DNA
<213> Mus musculus

<400> 712
agtccggcaa cagctanctg aganacctgn ataaaagggt ctaattacta canatgaaag 60
aggaagatga cggacnatga tgactttaat gnnancnacn aggaggattg atnntcanc 120
ccgnacaccc ctctcccntt cgaatcagnt tnnggaannn cncnntaga gganagaaac 180
ttaaaggggg gctttctgtt ctttttggcc tactcccaan aagatacccg cgagttcttg 240
agttagatgt gcagctocaa gtgaggagga gtgtgcgcag tttgagccta gctgcggatg 300
tgttgtgaag ccagcgtgct aatgcagagc ctctatctac cttttaggat tttatgggtn 360
ctctcttttc tctctttttt ttctttttct ttcttttttg aatttgaa 408

<210> 713
<211> 295
<212> DNA
<213> Mus musculus

<400> 713
tgaggtgggg tctttcaccn cgaccgtgtc tggaccaggt cttcgagatt cccatgtctt 60
cattggtggc tanatgaact acatgcagtt tatgcgcttt gncagtgatg gnaactactca 120
naggatccag gcgcgagggc cctgggtgaa nongatgggg cctgtgtatt tgnagatgga 180
aagaaggaaa acggttagct attcncacag ngcccataa aacctgcgat tcgcaatcca 240
ggtctacanc cagagcgacn aggtttgnaa catggggcca gaccgaccgc ctctct 295

<210> 714
<211> 282
<212> DNA
<213> Mus musculus

<400> 714
tgggggcaca aatgcacatt ggtgggaaag gaaccgggtt gtngaaagaa ttatggttca 60
tggaacact cacagcanac cgataaaaaa ctgccnttct ccttaaagaa attaggggta 120
aacnacatnt ccgnggtttg aanaggngaa caccgtttac aaaaccaagg aacaagtgat 180

cnatgttaac accaccatca aggctttttt tggngangcaa actntttttc caaggccacg 240
 ttttgagtc caaaaggcaa gccnncnaag acctttctgt tg 282

<210> 715
 <211> 304
 <212> DNA
 <213> Mus musculus

<400> 715
 ggacggagca ccgtgacacc ggggcagatc ctacagacag nctgtgannt cccnaggtn 60
 ggacttttga tcataagcac atnnngaggn ataantgccn tncgtggaa cangccncaa 120
 anccaatcat gntgngactg gttgttnccn agacagtggg accactactg naccacacct 180
 gcacatcctg nctgtctcagn aggtcanttt catagcctgc tanggtctac ccgtagagat 240
 gccannactt ggaaggtggc ttcaacaaac ttctangaca gttcactttg attggaattt 300
 cccc 304

<210> 716
 <211> 456
 <212> DNA
 <213> Mus musculus

<400> 716
 ctgaggcctc cccagcccag ctgccctgcc ttcactactg tcaagctgag ccctttgcga 60
 gatcgactcg tggtagctga gtgccagctg accactcac accagcctg cccacgtgag 120
 ntncctacc acttncgccc aggccacttg ctggccaatt cctgcctgcc agtccgcac 180
 accaaccaga tctccaaaca gtttgtggcc cctgctgatg tgccgcgcct gctgacccat 240
 tgcaagggcc cagaccatgg ggtcctagat gccctgcaag tgcttgaggg gctcttccgc 300
 acagatccgg aggccaagta ccgggacttg ctgttgccat tttaaagatg aaatggagat 360
 gagggcagcn nccaaaagcc ccttanccng aaagaagact gagaggaatg aacagtcagt 420
 tctacaaga agaaaccggc aggaatggag gttggt 456

<210> 717
 <211> 126
 <212> DNA
 <213> Mus musculus

<400> 717
 ggttccgttg acacactgag aacttcctgg ngaaactagt gagccaagct gggacagggt 60
 tctccttcaa ccacaagaga agccgactcc gagagaagct gagccttctg cactatgatc 120
 caatag 126

<210> 718
 <211> 189
 <212> DNA
 <213> Mus musculus

<400> 718
 ggcaaacata gtcgccatta tgattagcta cccaaaagga cgggaaattt ttgatctggt 60
 gcaaaaagga attccagtaa aaatgcggat agagattggt actctgtcat atgcaggagt 120
 tcatcanogg tcagtntgng gtgcttgagn cccccgcct ttatcacat tgatgaccat 180
 tttctttac 189

<210> 719
 <211> 312
 <212> DNA
 <213> Mus musculus

<400> 719

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cactgagtgt | gtaaagtga | caatggccag | taatcacaaa | tcttcagccc | ctcgccctat | 60 |
| ttctcggggt | ggaataggac | taacaggaag | gcctccttct | ggaataagac | ctccatctgg | 120 |
| caatgttcga | gtggcaactg | caatgccacc | aacaacagca | agaccaggtt | ctcgtggngg | 180 |
| tcccttaggg | actggtggag | ttttgtcatc | tcaaatacaa | gttgctgac | gtcctgtgac | 240 |
| ccaacaaggt | ttgagtggaa | tgaagactgg | catgaaaggt | ccccagaggc | ccgtgagatg | 300 |
| ccaggacttg | ga | | | | | 312 |

<210> 720
 <211> 428
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 720 | | | | | | |
| caactgagat | atgcttttgt | gnntanggaa | tttggangggg | antgcnctgn | atcacttttg | 60 |
| gtnatatcat | cactggncgt | gtttgaccca | ctggctgnca | ngatnctggt | acctgntggn | 120 |
| nggccctgga | gctatttggg | ngactacacc | ctatcctgca | cataatcacc | tgccgctggt | 180 |
| tccagactcn | aagttncaag | atgccttccn | ggctaaaacc | cggaatgtg | agccactgnc | 240 |
| aggccccaac | aattacncag | aacctnngtg | gnacctgnga | aaggcatnng | anattntaa | 300 |
| naagcactgg | tggatngng | ctccatggaa | gaagaaaaga | attaaagaaa | accggtactg | 360 |
| gagaaaatnc | tgnaaccctt | gcaanagagg | ccccggagct | ttttccagag | actatgccct | 420 |
| atcctgca | | | | | | 428 |

<210> 721
 <211> 136
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 721 | | | | | | |
| cagaggtgcg | agggggaccc | attttatgaa | gttctgggta | angtgtcncc | tnggaagacg | 60 |
| tgactgacag | aaaacatcaa | atctgaaatt | cttggatgag | acagaccngt | ncaccgataa | 120 |
| cagaacaaaa | aagaaa | | | | | 136 |

<210> 722
 <211> 213
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 722 | | | | | | |
| cctgctgcc | aggctaata | tgataccag | actccaagtc | acttcaaagt | caccaccccc | 60 |
| agactcaggg | atcatgntga | agaagaagtc | ctccaaaaag | aagggttca | aattnttgca | 120 |
| ggagaagatg | tttgaagttt | cagcatgtca | tcaggaatca | gttnttgag | cagataagcc | 180 |
| agcagatgca | gtgctgccc | ccgtgagatg | cca | | | 213 |

<210> 723
 <211> 424
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 723 | | | | | | |
| gaggtgccca | gatcattgat | ttgatgatgc | tctgtattga | tgtgaccaag | ggaatgcaga | 60 |
| cacagtccgc | agagtgcctt | gtgattggcc | agatgcctg | ccagaagctg | gttgtgggtg | 120 |
| tgaacaaaat | agacctgtta | gcagaaggga | agagacaggc | agcgattgac | aaaatgacca | 180 |
| agaaaatgca | gaagactcct | gagaacacca | aattccgggg | tgaccgatt | attcccgtgg | 240 |
| cagccaaacc | tgggggacca | gaagccctg | aaactgaagc | tccacagggc | atctcagaac | 300 |
| tcattgagct | cctgaagtcc | cagatttcca | tcccaacgag | agacccctct | ggaccattcc | 360 |
| ttatgtctgt | ggaccactgn | ttctccatna | aggggtcaag | gnccccgggg | tgaatgggac | 420 |
| tttc | | | | | | 424 |

<210> 724
 <211> 180
 <212> DNA
 <213> Mus musculus

<400> 724
 tgcgtcaggc ctagcatact gaagggcaca cctgcacct tacgccanna tncngntnt 60
 antnncctgt accgagttgg agtcatcaaa acctattctg aagngaggga gtngagacgt 120
 tctcctaggt taagggctgg ctccatggcc tcctcagggg attntgttcc caagtgggcc 180

<210> 725
 <211> 125
 <212> DNA
 <213> Mus musculus

<400> 725
 cccacggttc ggggggggna anaggggaaga ggggagcgaa agncaaacat tctcaaactc 60
 cgnggantnn caaaccacag agctgcctgc agaaaatgna gagacggaaa accatagtcc 120
 acct 125

<210> 726
 <211> 118
 <212> DNA
 <213> Mus musculus

<400> 726
 actgggtgat gaagcttcag actgagncng gagatgctgc caagtgcnc c agacggggatc 60
 aagactccaa tgacaacat aagattccct aaagctaaga cactgcataa aaaaaaaa 118

<210> 727
 <211> 105
 <212> DNA
 <213> Mus musculus

<400> 727
 tttgttgaag acgcttngat accggacggg ccagcnnaca agcgcnngng gcgggatcaa 60
 gacancaang acaaccataa gatnccctaa agctaacaca ctgca 105

<210> 728
 <211> 408
 <212> DNA
 <213> Mus musculus

<400> 728
 agactgaggt gtccccact aatagatggt actttacaca tgctcaatgg gtacctcctt 60
 gcctctaaag cttaccttag tgcccatcta aaggaaacgg cagagcaaga tagaccttcc 120
 ccgaataata cagtaggctt gggtggacag actgatgcc cagaagtgc cagagaagaa 180
 ctgaaaaacg cattactggc tgctcaggac agtgctgctg tccagattct cttagaaatt 240
 tgcttgcccta ctgaagagga aaaggcaaaa ggtgccatt cagacatctc cctcaggaat 300
 actcaaggtg tcaccaccat cagcactcca agtaaagaaa cagaagaagg agaagacaat 360
 ttgctctgta accttcggga agttcaagtg ccttatctgt tgcttggt 408

<210> 729
 <211> 207
 <212> DNA
 <213> Mus musculus

<400> 729

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agaggactac | ataccggtga | agcgggcccc | gcgggaggac | actcncntgn | tgccatcacc | 60 |
| cnatcagctn | cacatnaaca | taaccgcac | tgggaagagg | gagcctgccc | cnntcctntc | 120 |
| atacaatatn | gngacactga | ctaatagtga | cnactnaact | ntgcgtggga | tagcgtctg | 180 |
| nctttngttt | ntattgaaga | ttcaaaa | | | | 207 |

<210> 730
 <211> 123
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 730 | | | | | | |
| agactgaggt | gatgaagtct | cgatcactag | acgggagatg | ctgccaagtg | ccccagacgg | 60 |
| gatcaagact | ccaatggcaa | ccataagatt | cccttaaggt | tangaanctt | gcaaaaaaaaa | 120 |
| aaa | | | | | | 123 |

<210> 731
 <211> 413
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-----|
| <400> 731 | | | | | | |
| aaaggctgaa | gcataaggat | ctnaagttcc | anccnnattc | cttanggage | atttgccctcc | 60 |
| atanaataag | tntaccntna | ccgtgagatg | ccnngactnn | ggagnngntg | ntggaatgcn | 120 |
| gcttttngna | ctgnatctct | gcnattgctg | atatngnctg | aacggnttna | nnncaagatg | 180 |
| ccatggaatc | acggaattng | ctntgataca | cctctcccac | aaagggtgcac | atccatgaaa | 240 |
| tctctccatt | ataagctgcc | tancgtgtgac | ctggctcatg | acnccagtcg | ccatgttaac | 300 |
| acggatgagg | gaaagccagg | gaggctncac | ccccacctgc | agccaactaa | gaaatgctgg | 360 |
| gattgggaaa | aattgtcttc | ccctaggaag | aacactgcaa | gttggttatcc | cat | 413 |

<210> 732
 <211> 307
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 732 | | | | | | |
| aggggtgtttt | ggaggagtag | ttgtggttat | naagggatcc | cacatgctna | agaatgccct | 60 |
| caaagggagt | gagaaatctg | ggatgccnng | ggttccgaga | tttctggaca | gcttgggatt | 120 |
| ntctgcccag | aggaangggg | gacctnggcc | cagttatggt | tccnantgga | ggcttttgna | 180 |
| gctgagtaca | aagatatgga | ttcaggcttt | angnctanca | agttngntca | gtgtaaggcc | 240 |
| tttccctttt | ttttactctg | tngnnncann | ggggaagaaa | anancctatt | ttatgactgg | 300 |
| cattttt | | | | | | 307 |

<210> 733
 <211> 185
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 733 | | | | | | |
| taaccagcta | taccagacag | aagcgaagca | agagtccttc | tgaggactgt | gatctagaga | 60 |
| agagagagcc | agcgtcagg | gtccttgnga | agaagaacct | acgccattca | cannggggcg | 120 |
| aattngaacn | tttcntaagn | ntncaggngg | taaagcgcnt | ctggaattnt | ggggctcccg | 180 |
| aacct | | | | | | 185 |

<210> 734
 <211> 102
 <212> DNA
 <213> Mus musculus

<400> 734
 gtgaggtttg aagacgagca acggatcaaa gaagggagag aaatgaagaa aatcagacgg 60
 cactccactt acaggatcta taagccgtgt ttctgaaaa ga 102

<210> 735
 <211> 224
 <212> DNA
 <213> Mus musculus

<400> 735
 ctgaaacctg tttgctcang tttnacgtat cagagagctt ggagcggagc ttgncgcccc 60
 ancgacctgc cactccact gcctgccttc tagctgttcc anagccatna cagtggacac 120
 ctgcatcttt actccaagat gatttggcgg gaatcgggtc ccttccccctg cttcataact 180
 gaatgtcgna atantaaaat tgaaccttga gcagaaaaaa aaaa 224

<210> 736
 <211> 163
 <212> DNA
 <213> Mus musculus

<400> 736
 gaaattcgat tccgagtctt tggaggtcct gaanggacta agactttctt ggaaacaaga 60
 agtccgtctc agatgaatgt ggagcattgc aaatacacca ggagcccca aatgaggaga 120
 aaacacaagg ggtcctgttg gaaaggagta aggagcccaa gaa 163

<210> 737
 <211> 270
 <212> DNA
 <213> Mus musculus

<400> 737
 ctgagatggg ccaagcctga cattccatga tctgggatcc cgacctatgt gtccaggctg 60
 ctgcttgata gcggatgatc taaaccacca ggcagtcctg ggccaggaga ggcggactct 120
 ctgcctggat gtgtggganc tnantncnaa nttgatngnc cnatctgggg ggnatncacc 180
 cccaccccan aaagaaagca naatntgttt tgtgngtggg gnntnaggcg ccacccctn 240
 aancatggcc acccctgttg tcaccaagac 270

<210> 738
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 738
 tctcgtcctt agacgggaga tgctgncaag tgccccagac gggatcaaga ctccaatgac 60
 aaccataaga ttccctaaag ctaagacact gcaaaaaaaaa aaa 103

<210> 739
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 739
 ctcgtccttg actggagang ctggctagtg ncccgacgg ggttaagact ccaatgacaa 60
 ccataagant ccctaaagct aanacactgc gagaaaaaaaa aaa 103

<210> 740
 <211> 134
 <212> DNA

<213> Mus musculus

<400> 740

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| agaacgaggg | gatcaaacag | tgctcattct | tcatngcang | gngttgcacn | gaaggtttnc | 60 |
| ggaattgaan | nacgattatt | ttgccctcct | ccttgtgngt | ttcttatggg | ccgnggggtg | 120 |
| gggaaaaaaaa | aaaa | | | | | 134 |

<210> 741

<211> 233

<212> DNA

<213> Mus musculus

<400> 741

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gggtctggtt | agtctcagct | gactgaccta | ggnaatgggc | taggaacgga | acagccaagc | 60 |
| accggggcat | ngtcttgctn | gtcctcacgg | gcaagccctg | ttgcatctgg | gcagngggctc | 120 |
| tagcntctct | ccaaaacatg | gactgcttgc | ccacccaag | tngctggngg | ggaattgtct | 180 |
| ataagcccaa | cgttttctgt | nanaagccan | gtngggccat | cctgggtttt | ggt | 233 |

<210> 742

<211> 510

<212> DNA

<213> Mus musculus

<400> 742

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| agactgagag | ttcctccttc | tgagattcat | gataagcagg | ctncaagctc | cgncactca | 60 |
| gttctctaca | caactcccct | tcaccaaaaa | acagcccagc | aggcagcgcc | tggcagcacc | 120 |
| atgctttata | acgtcagcaa | aggtgtgggc | tattcagata | cagccctgca | ggggcaggac | 180 |
| ggggacaggg | aaggaatgtg | ggtaggagct | gggggagccc | tagcccccaa | tacctcctcc | 240 |
| ctatttcccc | ctgagcctcc | aggggcctcg | agcaacatca | ttcctgtcta | ctgtgctctc | 300 |
| ctagctacag | tgatccttgg | tctgctggcc | tatgtggcct | tcaaatgctg | gcgctcacat | 360 |
| aagcaaaaggc | aacaagttgg | ctaaagctcg | gactgtaaag | ctaggggacc | ctgacaggga | 420 |
| cccaaaagng | gnggggaacn | gnaacgtntt | cgggggactct | cctcctaata | tgganccctg | 480 |
| tnttcccagc | cagggaccac | acccggacct | | | | 510 |

<210> 743

<211> 131

<212> DNA

<213> Mus musculus

<400> 743

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgatgcgatt | gactaaacct | actttgttca | ccaatatctc | tgtaaccgtg | agatnccagg | 60 |
| acttggaagg | tgggcccctt | tctcannaac | ntctannttt | nnnntttttn | nttatattcc | 120 |
| cccccttact | t | | | | | 131 |

<210> 744

<211> 103

<212> DNA

<213> Mus musculus

<400> 744

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agatgaagga | tgaaaaagaa | aagngctcca | tccacacgtg | ctgtcctcag | gcctagccac | 60 |
| ctncttctac | aagcatcatg | cagattgctc | tctgtgggca | tcg | | 103 |

<210> 745

<211> 117

<212> DNA

<213> Mus musculus

<400> 745
aggctcttcc caaactccac tgcaccctac ctgctgntcc aaactggaag ctgnttatgn 60
ctttactcan gtgganttaa ggggaatgct ttactatgnc atgctgactg tccaaca 117

<210> 746
<211> 138
<212> DNA
<213> Mus musculus

<400> 746
gaacatgccg cccactgaa gacctcatca gtgtggcatc tatgaggcgt gctttttttt 60
cctggcgcac tgacttgcca gctgtccaga gcctgngctg cctgcagcac ctgtgggtccc 120
tacagaaagg gagccacc 138

<210> 747
<211> 414
<212> DNA
<213> Mus musculus

<400> 747
actgagtcct gtcttctgaa cgtcgttctn aaagattngg aacacctctg tctgccagca 60
nagttgtgcc tgagggcagg gctgcagggg accttctgag acagaagatg ccaactgaaga 120
agccggaccc tcagagcagc aagagtgagc atgttgatcg gacgttttca gatggtcttg 180
aaagcagggt cccntttgan gacaccnct gtcctggnga gcttgantca agngacatan 240
agcatgatgt aaataaaaata aatgtataga tggattgtnt gtctgttnaa acaaattacn 300
tgttctctgt ggtgatgcta ataccaatca naaagaagca atctcagccg tggaggagc 360
gagcctgcag tcaccttcca ggatttgctg atgaacaacc ctgagacaaa tcct 414

<210> 748
<211> 255
<212> DNA
<213> Mus musculus

<400> 748
catgcacatt tgetaccang agaaccacta catgcaactca cgcnccttgn cctatcacag 60
gntngnncct acacggagtc cctggataac tttctangaa ttncacact tctgnaaaag 120
cancttcccc cacatctcnn tctcttggcc taaaacttaa caangtttcc cctaaacact 180
tcttggagct tgcangacan aaaagggngt gtganaggna aagacctgtc ttgtgtggac 240
ctaataccct gacct 255

<210> 749
<211> 111
<212> DNA
<213> Mus musculus

<400> 749
acactgagag ggagaagagg catcaggagn gacggagggc accagctcac cccacaccct 60
ttttttgtca ttgttgctn ttttttctaataa aaaggtggaa aatagaaaaa a 111

<210> 750
<211> 106
<212> DNA
<213> Mus musculus

<400> 750
gagactgggt atctcatcat tcaagctgac cccaaactcg ctactatat atggagacca 60
tgacctgatc ctccagcccc cagtcccga gtgcggagat tacagg 106

<210> 751
 <211> 172
 <212> DNA
 <213> Mus musculus

<400> 751
 gactgggtcc cagagtagca agaagcatac tggatgatcat agtgaaagcc atgtattgaa 60
 tccccggcca cttgtcgtaa gtgcttctgt ttctcccgag gaaagccagt aatgggtcatc 120
 aagaccaga aagcagacct gggcccacaa ctcccagaga agaagaaaaa aa 172

<210> 752
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 752
 ccattaactt tctattgnga aagctttgng gggaaaaaac attcgtttga ctnaatatna 60
 gagctaaata aanccttgga tagcacaaac cagaaaaaaa aaa 103

<210> 753
 <211> 143
 <212> DNA
 <213> Mus musculus

<400> 753
 actgttttgg agttgncant accatgaaat gaccacnng ancagnacca gcagtngant 60
 nctggcagat ggagcctaaa agacgaggcc aangcatctc aaggaggtga acttgtacaa 120
 aacgaangct ccaaaaaaaaa aaa 143

<210> 754
 <211> 212
 <212> DNA
 <213> Mus musculus

<400> 754
 tactttctgt ggaactctca ttaggtgang aacanactca tganagccgt ccgtcccttt 60
 ccacgggaca gtaaccacgc tggcagcccc gcatgtcccc gaggcctcag aactgtcttc 120
 tgaaaataga catggtgtgg gggctcccca canaaaggaa tgctgtactg actggataga 180
 aggagaataa aaatatactt gaaaaaaaaa aa 212

<210> 755
 <211> 418
 <212> DNA
 <213> Mus musculus

<400> 755
 cagaactgag acttgggtctt ttgagacctc gcatcgaaga tggctcaggc accaacagtt 60
 atcgngactc aacctggatt cgttcgtgct ccccaaaatt ccaactggca gaccagcctg 120
 tgtgattgct tcagtgaactg cggagttctg ctctgtggga ccttttgttt cacttgtctt 180
 ggatgtcaag tggcagctga catgaatgag tgttgtctgt gtggaacaac ggtggccatg 240
 aggactctct accgaacccg atacggcatt cctggatcta tttgtgatga ctacatggnc 300
 acactcttct gtctgttttg ctctgtgtgc caactcaaga gagacattaa caggaggaga 360
 gccatgaacg ctttctaagg agctggatgg caagaactct ggctgaaaaa actcaact 418

<210> 756
 <211> 218
 <212> DNA
 <213> Mus musculus

<400> 756
ctgagaactc caagatggga ggcaagctga gcaagaagaa gaaggagagg agtactaacg 60
tccattcctt gagccccctg tgtcgtcaaa ctgctccagt attagttgca ggcactgatg 120
cttctgtgct gtttccattc tgtgatcatg tcttctccat gttgtacctc ttaagttttc 180
catgatgtct caaagtaaaa gctttaagaa aagaaaaa 218

<210> 757
<211> 106
<212> DNA
<213> Mus musculus

<400> 757
gtttcgatca ctanganan aatgctgcca agtgccccag acgggatcaa gactccaatg 60
acaaccataa gatccccctaa agctaaggca ctgcagaaaa aaaaaa 106

<210> 758
<211> 107
<212> DNA
<213> Mus musculus

<400> 758
gataggaccg aaaaggacca antngaggca tactgaatgc ttttctggag cggcngggat 60
ccaacngggg ctgatccccg cgaggcttgt gggatcccct cgctgag 107

<210> 759
<211> 111
<212> DNA
<213> Mus musculus

<400> 759
taccacgccc acgtgctgna acctgaggag ccacanangn gcacctttat actgnaccag 60
agataataan ngcaggggaag gggggggccc tcccccttca cttcatagct a 111

<210> 760
<211> 171
<212> DNA
<213> Mus musculus

<400> 760
tgagcagaga cagcaagatg gctcatgctg gcanaggcac ctgcccccaa ctctgacacc 60
tgaggtcatt ccacaggact cacagcgtga aggagagaga caactccagn aagctgtcct 120
ctgacctaca gnacgtacac cttcctntca ataaacacat accccccccc c 171

<210> 761
<211> 104
<212> DNA
<213> Mus musculus

<400> 761
ctgatagctg gagcaananc atggcgagta tnggtgacag gacngganct cctatcanta 60
aaaggctgna aatactggga tngggggacc caaccacgg atgg 104

<210> 762
<211> 122
<212> DNA
<213> Mus musculus

<400> 762

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| accagtaggct | ctagtaggct | ttccaccaat | gggaggaggt | ngcttaccca | ccancaccaa | 60 |
| tcggtgggta | tncangaagc | tggaggctac | cccncaccta | ggatagtttt | tccaaccctt | 120 |
| gg | | | | | | 122 |

<210> 763
 <211> 224
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 763 | | | | | | |
| catatatggc | ctgtttttatt | ttaccctgtg | acgonggacc | acaacctcac | aggcattgaa | 60 |
| gaccangtac | ttttngtnac | ccgccccggg | ccaacacctg | gatgccagct | tccgcnacca | 120 |
| aactgtcggg | ggaggnattt | taggaaccgg | ccgnattcnn | cccngngnac | naagnggnaa | 180 |
| nnnccnaagn | cttttnaacc | aaggnatttt | ggcccaaaaa | ctta | | 224 |

<210> 764
 <211> 213
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 764 | | | | | | |
| gcttctatga | ggatgaacat | ctagactgtg | ganggttgca | aaactnga | cttgnntctc | 60 |
| aatcnatn | ttgcaacang | actgaaacat | gtgtgacttg | ttcacttggt | ggcanctgac | 120 |
| cagatacccc | caggnagcct | gctncctaca | attcccaatg | aatttacaac | ttntctaccc | 180 |
| catagacgtg | gggactgtga | tctcttgaac | ttt | | | 213 |

<210> 765
 <211> 230
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| <400> 765 | | | | | | |
| tgagttcaat | tccccacnc | acatgagaaa | anagaacttn | tnccgctann | gctttgnnaa | 60 |
| aacctttact | ggctgcttgg | aaaatgaaga | tgongactcc | anattggcga | tttatatatt | 120 |
| cttcatgcaa | gggcagcata | ctaaaagaga | gaaggagctg | cgctgaccag | tgactgaaag | 180 |
| ctgtaagcac | tggaaacatat | ttgcagaaga | caggatttct | aagggtgagat | | 230 |

<210> 766
 <211> 239
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 766 | | | | | | |
| ccatctctac | caaactgaac | ttgctggtgt | atctgagagg | tntctgagag | ngnatggagc | 60 |
| tgccgctgcc | tgctaacttg | tgaaatgaac | tgctgatttc | cagacaacac | agacagaagt | 120 |
| tcctccaaag | aacctttgta | aataggtcca | cttccccctg | atccttttct | ttatactacc | 180 |
| gctggtgggt | agtgggttac | aaggaaggtt | aaagtgttta | anacccatca | ttaaaaata | 239 |

<210> 767
 <211> 361
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 767 | | | | | | |
| aacactggaa | cagacctgaa | gctnaacgcg | atggcccaca | cttgncattc | tnntcagatg | 60 |
| tanttgggaa | accaaccagg | acntgagcct | tanangcaac | gtcnggntnc | acagcacctt | 120 |
| ctaatacagg | ctgagctaaa | gganaccttg | nttaacaaat | tggaacngata | gccccaggaa | 180 |
| ggcncgtatn | aagcgacngc | angcgctcgc | tcggtccaca | aangcacaat | tgccccggaa | 240 |

| | |
|--|-----|
| aggagganga agaagatcct cttgctgaag aaaaaccgac tagaagaaga aaggttggtta | 300 |
| taaggaagan aggcnaaga ctccatgaaa aaatgggtac ctgaggggaag aaaaggcccc | 360 |
| c | 361 |

<210> 768
 <211> 209
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 768 | |
| tgaggtcctt cttaggatct ctgtggaaga gtgaagctan gccggatccc tcctgtggac | 60 |
| ctgcccgcgg ttganctggc tgtccagagc aaccattatt gccatgcccc gaangattct | 120 |
| ggaagtcacc ctgaccccgga gaagcagagg gcccnacgca aactntatgt ggccctctgcc | 180 |
| atctgcctgg tgttcatgat tggcgaaat | 209 |

<210> 769
 <211> 212
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 769 | |
| cttctgtggt ctagcatnga ngattggaat ctatgcatac gcannaatga cttntttcttg | 60 |
| tcacacccac agagcccga cagagaaagc cgaaccgaaa tccnccgagg aacctcccgg | 120 |
| nggccnaaag gagggggtgg ggggtggtngn acctacaant tttnnatggtg gacntacaga | 180 |
| attgactgtc acattgtcct ctgaccttca ta | 212 |

<210> 770
 <211> 347
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 770 | |
| gagtgtgtg cattttactg agtctctcag gagctggaac ccagaaggca gagattaana | 60 |
| actgtgccaa gtggtgcoct atcaactcaa aatgtgtcag taacagaagc tgtgtctgca | 120 |
| agcccggctt cagctcggag aaggaattga tctaactccc tgcagagagc tgtgaagaca | 180 |
| tcaacgagtg tttactacct ggattttcct gtggagactt tgccatgtgt aagaactcag | 240 |
| aggggagtta tacctgcgtc tgtaacctgg gatataagct cctttctggt gcagaatctt | 300 |
| ttgttaacga gagtgagaat acatgtcaag gtaagagccc cccctg | 347 |

<210> 771
 <211> 438
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 771 | |
| gagaccaagc ccaaatacaa gggaaaatcc accctggaga aatttttgtg aatctgctca | 60 |
| agccctgagg ggaagaacag aaaggaaaga gaaaaagggc ttacaacctg agccttgatc | 120 |
| ccagaacaaa ggccagccgg catcctttca ggcctgcacc tggccaggca gcggagcacc | 180 |
| ggggtctctt cccagactt ctgcctttca tcaccatcat ctgatcagcg tgtcagcctg | 240 |
| cccacctgtc cagagcctgt gcacaccacc tttctgcctg actgaagggtg acttggccca | 300 |
| ggtcctgtga actgactaat actgctataa agcatgcatt gctcttggtt acctttaaaa | 360 |
| gaactctagg tggctctacg tgaaatcaag tgaggaacaa aaggcaggcc cgggaaagca | 420 |
| atcaaggtgg tcgtccct | 438 |

<210> 772
 <211> 108
 <212> DNA
 <213> Mus musculus

<400> 772
gactgagctg tttagtgaag aaataagtgg tgcnnaggn acnaagcttg ntnaaagaat 60
ttntgnacan gggaaagaat aaaatgaatg aactctgaaa aaaaaaaa 108

<210> 773
<211> 320
<212> DNA
<213> Mus musculus

<400> 773
aaacaatgaa tagctctttt ntgaaggccc gaggacaaca ggatgttctt tctcacctt 60
tggaacgggt gccccagca tcccggncg gnaaggctnc acttggnact cctaaaaccn 120
cngtctnga agactttctt nancaatgac gatnaaaagg agcggatgca anngganacn 180
gctccanggc tcttttgacc tgnagtctna tgtacagatt cgattcatnn tggcctcccc 240
taacaggaat nttgatgctt caactaccat atctaactgt tacaaacnca ccagtattac 300
aggaacatta ctctacctgt 320

<210> 774
<211> 397
<212> DNA
<213> Mus musculus

<400> 774
taacctgag aacatgcnn actgnaacct tactatgcct gccgganaac taccaggatg 60
acgcactntn tctatcatgg gtctctcttg gctcccagct ttcttacatt gctcgnngat 120
gganantggg aagantgggg gctacnncnn ggntnnnnng gannangncc caaacaatgt 180
gncncatgga cntattacct cactggcgng tgaaagcgtt cccaccgnac gcctgtggcc 240
tggtcataa gctgngtgga ncaggcctct cgganccatg antatagaac ttgcaatgcc 300
aaagacgtcg tctctctgcg tgccngggaa anaantcacn gggcccgcgc ctgcatcctg 360
ttattttnaa ctagccatcc aaacttttta acattca 397

<210> 775
<211> 311
<212> DNA
<213> Mus musculus

<400> 775
acgtggtccc cagcgcgcca ggcccgggccc cangtcccaa ntggcgaggc cagtgcggct 60
ggcaccgacg tcgatcaang tgaccnacgt gtgggtccgag cgccagntca gagcaggatg 120
nanncagctc ttgggggttcc tgggcantga tcnacgagct gntgcctctt nccgccggat 180
gactnacctt tgccagtntn ctatnnagnc tgctttgntn agntccatga ctcangactc 240
anangtngtg gcacagnatn tganaaacac tgagctnngn gacanagctt tgatagtgga 300
agaacaccta t 311

<210> 776
<211> 295
<212> DNA
<213> Mus musculus

<400> 776
tttggggggg gatacgacag gggcccangc ctgcgcctcc accgacaagg gcccgaaacat 60
cancgccttg ncctgnacca tctcacgggn catgggncgn catnggagca ngagccanna 120
gacgaagttt nntgnntngc aacatctcac aggagataac agactctggg gccnccagg 180
ctngcnatgg gggangcttg cctancgctg acccaaaccc tagacnnagt cctgaccatt 240
ngccccatac anatgcaaaa agggacacnc acaaatcngg ccatggagga ctcaa 295

<210> 777
<211> 259

<212> DNA
<213> Mus musculus

<400> 777
ttaacaggct tcgaacctgg aaaggaaagc ccgctctgaga gaggaggcat gcttttngng 60
nngccaaaaa ctncactttn aaagatattn tggnggcaac ccaggaanta aaaggcntgc 120
nnactaatga aacctggctt ttacaaaagg gatacaaatac tggaggacnt cacttttggc 180
cagaacattg tatttttggc cacaagaatg gtattccact ttcccttatt aaattgcntg 240
gtaggaaggg gaacccaaa 259

<210> 778
<211> 385
<212> DNA
<213> Mus musculus

<400> 778
aagaactgag gtgggggtntt tcatttggct ccccgctggg gaatcnaacc ccggtctccc 60
gcgtgacang cggngatact cncnctnta ccaattatng nncacaccng tggcgcggtgta 120
ganttnacgt tnaacatcag ccgttacagg cancngcnac tgatggaaac cagccatcgc 180
catctgctgc acgcggaaga aggcacatgg ctgaatatat actgttattt tgatggaaaa 240
atatatcttg tgtctgacaa gaancnratn acntttttgt ggnatnccag nnggtntntg 300
aagtaggcca tntctattac cggctcaatg atctgacttc nagactattg ggcatattgg 360
gagctanent taaccttctc tcgaa 385

<210> 779
<211> 466
<212> DNA
<213> Mus musculus

<400> 779
cttctgagac ccggatgcgc gnngggcgct gtgttttccg aactgcggct ggactgcctg 60
ggactctgac acctacggct ctccgctttc ctggggacct ctctctgagg gcgtgccgag 120
acatggaggg cgcanaacctg gcagagaagc tcctgtccac ctggctgacg ctgggtggcg 180
gcctcatcct tttacctctg gccttcggat tatccctggg tatctcggag atctacatga 240
agatcctggt gaaaaccttg gagngggcca cattacgaat tcagaaaagga gccctcaagg 300
agtcacctct taaaaactca gcttctgngg gtattatcca aagaagatga agnccccat 360
gggagaaaagg gctctctggt ccttcgagga aggggaactc cgagctctct gatgtggttc 420
tattttctcc aaanaagggg gttggaancc atttgagggg agggat 466

<210> 780
<211> 452
<212> DNA
<213> Mus musculus

<400> 780
tgttgggacc attaaaggcaa cgcatttgtc ctgatctctg aattgggcct ctccccccaa 60
gaaagaaaag aagggtcaaaa gcggggccacc gggacgcacc gctcaagaaa aantcancgc 120
cgggatgtcc tgaacctcaa agaataacctg aataccgccc aantttcttg gcttcccccg 180
tgttaactgc cttaanaaat gttgcaattc ctatttggcc cccctcccc actngaataa 240
aattacttcc accttttttg ctttgttatt tggccccatc cctcccccg cttgaataaa 300
gttatctggt acttccctgt tttcctttgn tgccaattcc tactggcccc atccttctctg 360
ctgaaaaagg cacttccctt tttgcttggg tgtttttaaa accttggggc ctgggcttaa 420
ttacattttg gggggtcttg aatacaaaact tc 452

<210> 781
<211> 280
<212> DNA
<213> Mus musculus

<400> 781
accgccttct gggactcctc caggatgetg tgnnctcgc tctttctct ctncgtngga 60
aatggaatgg gggaaaccca aactggctat gagatgattc agaaaggagg gatttccttc 120
agggttgcca cacagcaatt ctgggacaac cggtgacctt gaattcttag gaaaagttgg 180
ggaagccaga cttttgacca agactctcca caccatccct attgcacct aacaggcctt 240
gagtaataac acccatacat tcaaattgtca aaaaaaaaaa 280

<210> 782
<211> 111
<212> DNA
<213> Mus musculus

<400> 782
actgaggtgg gtttgggctg aggtagaach ngggcggagt ggggntgatn nttagnccggg 60
gaacngtcat angtcctnac aggaagcntg gctggttcca aaataaaaaa a 111

<210> 783
<211> 408
<212> DNA
<213> Mus musculus

<400> 783
tggactctcg gaaaggaaa gcnacgangc atggnttgg accatancac gtactgccat 60
cgnntgctgn ttanatnttg nttgacaaca agaggagact gtggacgtaa cgttntccac 120
tttgggonan agagncttc acctttggaa ggcgctttg cactggnttt naagantatt 180
cantaccggg gagangctgt cnccaccagg anaggnancc cnttgcctcat ngnggtacna 240
ancaantaag gttctctccn cagngcatat ccccgcttta tatccgacat gcaatntngc 300
naatggnaan aatatctgca agactaggat gaagagactg gacagcttcn cctgcctgca 360
cctgtggggc aaaaaanctg gggaattctt ttttgttttg agcaaggg 408

<210> 784
<211> 252
<212> DNA
<213> Mus musculus

<400> 784
cataagtgac taagattggc tgacgctgga ggatgtgtgg gtcgtaacac tgggattaac 60
ttttattaga ggggtggaaa acgtgagttg cgggtgtgggt gtggccgatt agaagaccac 120
gctggggaga tgctgcccac ctaccatcct gtgtatcctg aggaccaaac tcgggcttgg 180
tggtaaaagc ttttatccac caaatcctcc ctcgtggact tcgagattgc ctaattagggt 240
ctgcacctcc cg 252

<210> 785
<211> 151
<212> DNA
<213> Mus musculus

<400> 785
gctgacaaga cacacacata caaacaggct tccgagaccc tcccaggtoa aacttgntgg 60
aaaccctccc tgctcaaatt atgctcttta ggatanaggt ncccagcatt ttgttttggg 120
tagtagaaaa tacaagtaaa atgtggccag a 151

<210> 786
<211> 179
<212> DNA
<213> Mus musculus

<400> 786

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tcgcagactg | agacaaggtc | tagantgagg | gagatggctc | tgtgggttaa | aatgccgact | 60 |
| gctcttcena | aagancnnag | tgcaaatccg | canacnaaag | gcatccggag | accatactg | 120 |
| ggcggnattct | ggtgagtgt | gctgtgttgg | ttagtgccct | ggaaggggta | aaaaaaaa | 179 |

<210> 787
 <211> 103
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgagctttc | ggtcagagaa | gaaacgcctc | aggaagcccg | agcngtggct | netggaanat | 60 |
| acatgangaa | tatggatcag | ganatttgct | cctaagaaaa | aac | | 103 |

<210> 788
 <211> 425
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| tacttcgtgt | ggaactntca | naggtcggac | aggatgaann | tnnttatgct | nttactgann | 60 |
| gtgttactan | gacgattang | gcccnnntac | cggntnatch | ccacagggtc | cccaaaaggg | 120 |
| agaaaangat | actcangaga | tccagccagc | ggcccacggt | catcaacaga | aggaanaggc | 180 |
| cacccatgca | gcaccatcac | cgtctggacc | tggccctgta | ngctgaaaca | atgtngccgc | 240 |
| tgctcctctg | tgggacncgg | tgtaactgtc | tnanccggca | ccttctggag | atcanctggg | 300 |
| gccaccctgg | ttcaacttctg | annntgnctt | ccccccggga | tcttggttaag | gttcctgact | 360 |
| ggntttccac | aggcctgctt | tccgtctntg | ggcacctaca | ggacttntta | cccaccctta | 420 |
| aagtt | | | | | | 425 |

<210> 789
 <211> 123
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aatcttcgac | tgccacagag | cgngagcacc | ggcatgaatg | gtcatatgtc | taaccgctcc | 60 |
| agtgggtatg | gagtctaccc | ttcncaactg | aatgggttcgg | atcttcacca | ccctattccc | 120 |
| aga | | | | | | 123 |

<210> 790
 <211> 300
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| tgcatatcc | cactattgan | tcggagccac | ctgcngatnt | ngaaggggaag | aacngngctc | 60 |
| tacttgctca | caacctgnct | gachacctan | tagcctatca | ctgggttcngn | ggnaaacggc | 120 |
| cgatagacaa | cgatctaatt | ataatgtatg | aactaaaatc | tcaagaaaca | aaacaaggaa | 180 |
| cactatatag | cgggagagag | acactgtnc | ctaattggatc | cttgatgtta | cagaatgtca | 240 |
| ccttgaagca | atctggaatc | tacagcctaa | atatccattc | tcgagatgac | caataaaaaa | 300 |

<210> 791
 <211> 386
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgagcctagc | acagcgcccg | ggtcagggat | gagtgggtga | aggacttgga | ctcagaagca | 60 |
| aggtataggc | aaccagttct | gactttggaa | cctcagctga | gagtgaagca | gaggatgtga | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atctttcatg | agcagaatgg | tcacaggaag | aggaaaggag | ttgcttaccg | tgtggaagta | 180 |
| aaccagacag | agcagaggac | cacagtgtgc | ggcttcccag | cctggtgtag | cctgatgctg | 240 |
| tgcactgcaa | gattcatgtg | gcaaattatt | aggaaaagca | agtgagtatg | gctttaattt | 300 |
| ttgtactttt | acccatgggg | acatttttag | tgttttaaat | gtaagcattg | cacagaataa | 360 |
| aggtggtata | catgcaaaaa | aaaaaa | | | | 386 |

<210> 792
 <211> 563
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| ctgagtgtgt | gtgggctgag | ctcgagnctt | cacagcagca | ggaanagccc | ggcaatggga | 60 |
| caggatagga | ggcaagcatc | accatcaaaa | gctcctggcg | ccctgtgcct | gtggtggaag | 120 |
| aaaagagggg | gtcagagaag | aggagatgct | catttccgct | acccaggctc | cagcttgctt | 180 |
| aatcccaactc | ccttgtcttc | cgtgtcttct | tcaatttctc | ctgttgacct | ttgtgctcan | 240 |
| taaacgaaat | cttccatctc | cggcngcaaa | tcagttccac | gagtctgcag | gctttctgag | 300 |
| aagaggcaac | agtgtaaaac | tgacatcttg | ggaagggtta | gnaatccggt | acatttctgt | 360 |
| tgactggctc | tctgacccca | gctgtgacat | catcattagg | cccatattta | gctccgcaga | 420 |
| gaaacaaacc | tctgtacgct | tcacgaagaa | aacagaaggc | agcagacgcg | atctctttta | 480 |
| aatactgncc | attcaccttt | acagtttaga | ataagtacta | gaataaaaaat | aatagtattg | 540 |
| cagccagtgc | cagaaaaaaa | aaa | | | | 563 |

<210> 793
 <211> 138
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgagaaagg | cgttactaaa | gatggctggg | actgcatttc | ttgtcttagt | ggcttaactg | 60 |
| ctgaggggaa | gtgccactgt | cccactggcc | atatattagg | nnagaataat | atttataaaa | 120 |
| taatggtgat | gaaaaaaa | | | | | 138 |

<210> 794
 <211> 432
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| cactgagggc | tcaaggaacc | tggnggaaga | ggaagcagaa | agaatgtgag | aggcanaggg | 60 |
| gatggaggac | taatcaacan | ggncaagtcn | canggacaaa | gtatanacac | atgaataaaa | 120 |
| gacggaaatt | cctttttgcc | tcagtacttg | ctgtccagaa | ttcgaatttt | atatatccat | 180 |
| catgtcaaag | gtgcttctct | aanataatcc | ttgagtccaa | aagggtttact | tgtcccaaat | 240 |
| gtggctcttc | tgggtgacact | ggaagtacca | attacanata | caaactgtcc | ttgaaagtgg | 300 |
| cagaatccan | caaactattt | ttcattactg | tatttgggag | ctgcttacat | acattttttg | 360 |
| gacttacggc | cactggttta | cacaggtacc | ttgaagattc | tattaaaaac | ctaaaaaacc | 420 |
| ctggccgggg | gg | | | | | 432 |

<210> 795
 <211> 457
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ggagatgctg | gccaggggtg | cttnatgact | gtgaccctga | gcctntgtca | ccacagcggn | 60 |
| ggcggagggtg | agcgancnnn | tggggaagag | cctcctcaag | ttctgctctg | gagatctggg | 120 |
| gcctgagagt | atcctgcctg | acacgcagnt | ntggacccc | atgcttgctg | aggcggccac | 180 |
| cacacccctg | gcacaagccc | cangcaaggg | catggatgat | cgggtgtttt | acatctatac | 240 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttctgggacc | accgggcttc | ctaaggctgc | cattgtggna | gcacagcagg | tactaccaca | 300 |
| ttgntgcctt | tggccaccat | tcctacagna | tgcgtgcgc | cgatgtgctc | tataactgcc | 360 |
| tgccactcta | ccactctnna | nggaaacatc | ntnggtnggg | ggcaagngcg | cctntncggg | 420 |
| taacgnggtt | tntgcccmaa | naagtctcc | gccaccc | | | 457 |

<210> 796
 <211> 210
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 796 | | | | | | |
| gctgccaccc | cgatactgtg | aatgccacca | aaaactgact | acatctggat | cgctctgac | 60 |
| ctgggcagga | ttaataggag | tgcgtggct | gggatgttg | aggtagccag | agaaagcagg | 120 |
| tgagcacagc | acgggggctc | agggaccgat | tccacaagct | cctaagctta | agnaacnttc | 180 |
| tgaaancnaa | aatccgggga | attttaaaat | | | | 210 |

<210> 797
 <211> 408
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 797 | | | | | | |
| gactgaggac | tgactaacag | gcaaagaagt | gactcttcca | gaggcttccg | gtcgtctggg | 60 |
| tgcactgctg | acacagctgt | caccgttgca | gatgccatct | gccctcctcc | catctcogtt | 120 |
| gtcactcagc | cccttccttt | gtctggaccc | cgacttgccc | ttttgcctcc | tcaaacagcc | 180 |
| ggactcagct | ctaccgcctc | actctcaaac | ctgcagtcag | gggtcctgac | tcagccacag | 240 |
| tctccccaag | tgtccgggtc | ctgtttacct | cattgtcaga | gactcgtggc | cctgagtttc | 300 |
| ccagcttttg | cttctcaggc | ctgttggaat | ctctgaaact | ccttgcatct | ttaacccttc | 360 |
| acaaccattc | tataatctac | acataacat | atatagagaa | atttactg | | 408 |

<210> 798
 <211> 350
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 798 | | | | | | |
| aagaaacctg | gagaagaaca | agaagaatga | tttcttctct | ggtaaagtct | ccccanggtc | 60 |
| tgtaaacatt | caaggatgtg | gcagtggact | tctcacagga | ggaatgggaa | tgtcttgact | 120 |
| gtgctcagag | ggcattgtac | atggatgtta | tgntggagaa | ttacaacaat | ctattttttg | 180 |
| tggaaaaatca | ttacatatgt | cataaatatg | agaacttctt | ggatcaagac | acacagcata | 240 |
| ttgtccatga | ggatataaat | atcaaactga | agtcttataa | atgtcatgaa | cttgccaaaa | 300 |
| tcataatntga | atccagtcga | agtacacctt | ataaaactaa | cctcagggat | | 350 |

<210> 799
 <211> 434
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| <400> 799 | | | | | | |
| ctgggtaagt | gtggctcagt | ggctgaagaa | ggcactggat | ggagaggtaa | gcaagagtgg | 60 |
| agcggggaac | aggagcccc | cacagatcca | tcgggtttct | accactcccc | aatgccagcc | 120 |
| attgtcctgc | agatcctggc | tgaaaacatt | caagtgaacca | acctgattag | tgactcattg | 180 |
| catcggcggg | cgcataacat | ggcagtgtca | gagctgggcg | cattcttgag | aaggtttgcc | 240 |
| nancntgnng | ncccatnctc | tatntacnat | cttgngnnaa | aacngccgan | gggcttntta | 300 |
| ntanncnnnn | ctgggtgcntg | ncttnaanca | ccaatcaagg | ntganatctt | cggnctcggn | 360 |
| cctgctgccg | gacgggggaa | cttccggggg | nentaactcc | naggggaagc | tgcccttgga | 420 |
| ccaacctcaa | aaag | | | | | 434 |

<210> 800
 <211> 136
 <212> DNA
 <213> Mus musculus

<400> 800
 accagcctca ttaattncan caacatcata attcatgcta tantnontgg nncnagnagt 60
 ttnaaagagc anactttcca caggagctgc ttcacttagn totacagcca gcccatgtgg 120
 acttgatctc tgaact 136

<210> 801
 <211> 138
 <212> DNA
 <213> Mus musculus

<400> 801
 tgccattttg attttanggg canagganga gggggaatct cagttggtga nttaaaagca 60
 ctgaggctta aaactgcttg gaatccttca ttgaaaaaca gtggccttnt agcttnttca 120
 agtcacacttt ttgtgcct 138

<210> 802
 <211> 293
 <212> DNA
 <213> Mus musculus

<400> 802
 aagagaaccc actaaataat tggctgacaa caaggggaac agcttggaga agaccagcta 60
 agtctgggtt cctcagagat ggctgggaac ttggatgtag gaagtgtttt ctccacgggc 120
 agatcatgga ccactttcca cagtggtatg attttntcaa gcaggacgag acagacatca 180
 agaactaggg acagaccctt gcccacaaca agacgttgaa aagtcagaaa tcctatgaca 240
 tgccatctct gcttttgtac ccagaagaga gcttgagcct cttcaaaggc ttt 293

<210> 803
 <211> 109
 <212> DNA
 <213> Mus musculus

<400> 803
 ttcatgcttg gcatggngat gctgggctac cccaactttt nggcccccta tggcagangc 60
 taccncngat tttgctncta acttatngnt accaatttcc aagctttcc 109

<210> 804
 <211> 455
 <212> DNA
 <213> Mus musculus

<400> 804
 cacactctcc cttcaagaag gattgocctt gctcagagac accanacttc tncnacctgc 60
 gcancgtgat ctgcgcanc tgnncnctg cgacccaaga gtgcaggncg ggncttangg 120
 ngaggnaatc ggcgncgnng natgnetgct tctnatgccc acngaggaag agnccatctg 180
 nncnntttg gcnnccatac acacactgaa agacgtgaga ncctggcccc gcccnngtctg 240
 natttggaac acaaccttgn ncaaaaaccgg tttnangnnnt nctnaagtct ggcaaccttg 300
 ggggccaaac ctcgggagct gangaccggg gaactcangg tcgtcngccg ttgggatgtg 360
 aaagggttac tcaccatcct tgctgtggtt gtagatgtcc atggcctcct gcaaattcac 420
 tagggcaatc ttctcaatga ccttgacagt cctgg 455

<210> 805
 <211> 109

<212> DNA
<213> Mus musculus

<400> 805
ctccggacct gactgagaca tgcagcttcc ctgtgcatca ctangccacc aggatatcca 60
cctgtcacct cacttgata aatgtttctg ttttgagca aaaaaaaaaa 109

<210> 806
<211> 225
<212> DNA
<213> Mus musculus

<400> 806
aagttttccac tgatggtnga tgncttcttt cttcaaattct ctgaccttcc cngtgccac 60
ctcacanact gaacacatgc cctgcnntgg ncatgaatta annaatgngg ganatgcttg 120
caccttgctc tgnctgggat acaatcctgt ntagtgccca tttttatgtn ntcccatna 180
natanaagga tgccanagag ttaancatt ttaccaact tttct 225

<210> 807
<211> 229
<212> DNA
<213> Mus musculus

<400> 807
gagaacagtt aagacagnnn agaaaattct tacagaacaa caagaacaca tgtcangaag 60
aggacaaaga gcgtatgagc aagagaaaga aaaaggagtc nnctottatc tgactacctt 120
aaaaganatt gntcggntaa ncgancagt tgtccaaaaa gctgctcctn cagatngcca 180
aactcaacag cacttgactg gaccccgnaa cttgcgga cttcatctc 229

<210> 808
<211> 395
<212> DNA
<213> Mus musculus

<400> 808
ggttgctcga agaaagcact ggaaagacaa tacgttctact ctttttttaa acgagcacga 60
ttttcaggaa gctgctgctc caccagcc tctctctgaa cagtcctcag cagacaacca 120
caagaggatg gggagagtgt ctaacttctc cgtaggaac actcaagaag gaaataaatt 180
caagaggaaa gactattctt cccagatagc agaaggagaa caagattcaa atttaagaga 240
gagaagaatg aacogtgtca aagaatgatg caaataccaa ttctgccttc tgggactctc 300
ttcatttgga tgatgcaacg aaggaaagt caccagaaag ggagagcgcc tccgcgtgga 360
ataagaagaa attgncggnc ggcccaaag tccca 395

<210> 809
<211> 148
<212> DNA
<213> Mus musculus

<400> 809
gagatttcag attttgcagc ctaaggaaca ttttccaggg gagactgcca gtgcagccac 60
cttggcaacc aagatcctga tccagagcca catagccaca gactggagta ctgggtggcc 120
acagtcctca aataccttct caaggcag 148

<210> 810
<211> 405
<212> DNA
<213> Mus musculus

<400> 810
acctgccatg ggcccgtcca ggcgccttcc tggcgctcctg ttccctctcg ggacactggg 60
tctcaccact tccccagcca gaggacggct ccgctgttac acctgcagct ttgccaagcc 120
ctgcgacctt gttcccaggg agtgctnaga ggacgagggtg tgtgggtgtca gtgttggcac 180
ctcagagcaa aaggaggagg aagtcattga gcggaaggc tgcctcccca gagccagtg 240
ccctctgctg ggccatgcga cctactggtc acggctcctac tctctccggc accagtgtctg 300
tgagcaggac ctatgcaatg ctgccgctca cagccacccc ccaaccttcc cctcatgact 360
cttgctaccc cttgcaagcc atgatcggct gggggaagga catga 405

<210> 811
<211> 424
<212> DNA
<213> Mus musculus

<400> 811
tgattctccc cttggcaaac tgcagccagc cagcctcctg ggtcgagagc caagccaaaa 60
gatgtctgag agaagaaacc tggggnccctg caaaggtaag tgggncccag cccactctca 120
atccccctct ctctgtgnga ttgctattcc acactggagt cacctgctct gtgcttctga 180
ggaacctcac ctctggcaca tcaatggana ttgtccctcc ctttttatnt atatinnttt 240
attntttatt ttttggcacc ctcaactggc actaanagat agccctagct cctcctctcc 300
tgcctggttt tgacaggact cactccattg agnccttgct tcgtctcttt ggcagccctt 360
cctncttccc ccccccttta tatecntnta nttttttgac ccnccctttg ttttaaaacc 420
ccgt 424

<210> 812
<211> 296
<212> DNA
<213> Mus musculus

<400> 812
gaggcgttgc tgctggagca ggttaataat tctatcacca ccctacagag gaacctggag 60
aagcaagatc gtcaacgggtg actaccaccc ttggaaagca tttggaaaag taaagtgtgt 120
agtgaggcta ggttgtgatg tttttcctac tggctctaata gttaaaaaaa tattagggaa 180
caatatgaag ttcagaaaagc cacactctta ttagttaagc aagggaacctt ttatggtcag 240
ggaacaagaa cagtggcagc actggctgac cgtgagatgc caggacttgg aaggtg 296

<210> 813
<211> 187
<212> DNA
<213> Mus musculus

<400> 813
agccagatga aggacctgta ttccctaggna tttgggagac tgatgnacna ggatcanggg 60
actccaagaa ttccagatca gntctggacaa cntgagatgc caggacttgg aaggtgaaag 120
tataggaact tctcgacctg caggcatgca agcttcgact tcgtgagatg ccaggacttg 180
gaaggtg 187

<210> 814
<211> 200
<212> DNA
<213> Mus musculus

<400> 814
gactgagtct ggctcttttc tagtatgttc aggtgggttc ttggaaagaa tccagcatga 60
atattattng aactgggaga ttccctgacca gaacattgat atagaagcac tgcaggtcgc 120
atttgatca ctgtatcgag atgacctnt taataaagcc cagcanggtg cgtgagatgc 180
caggacttgg aaggtgtgct 200

<210> 815
 <211> 107
 <212> DNA
 <213> Mus musculus

<400> 815
 agaagatgtg aaagaaaaag accgngctaa agaaatggca cgccagttcc acagttgttg 60
 aagatatcac aaaggacgag caggaggaaa caccggaaaa aaaaaaa 107

<210> 816
 <211> 172
 <212> DNA
 <213> Mus musculus

<400> 816
 acactggggt tcccagactg ccctttgaga ataaaatggg aggccacaac caaagtcttt 60
 tggataaagc accacaatgg acaatactgt tttgaggtgc tcctgtccag cctctattta 120
 tctacttctc tactctctct gcctctacta aaagtgaaga agaagaaaa aa 172

<210> 817
 <211> 485
 <212> DNA
 <213> Mus musculus

<400> 817
 gactgaggga tggaaccagg ccctccaact tctgtgaggc ctagccctgt gtcaggctac 60
 aggagtttga gatatttcagc ccctgaatgt atgtggcaag gccattagac tcactttcgc 120
 cagctcgnga ccatggatat gaggtctgcag gagtttgaga ttttcanccc ctgaatgtat 180
 gtggcaagac cattanactc gctttcgcca gtgaacagtg ggcggagcga tgtctgtcac 240
 tggcaagnng aaacattcaa ctgctgccgc aggtctctcc tgttctcttc ttctttgtgg 300
 ggcgcatnaa gtcacacaca gaggtctggcc tgcactctgc angttgcang agngaccggc 360
 atggcctgaa ccgccctgct agcctgtaac acatgtacaa gactcgggta ccgnggggaa 420
 acgtgtgctt ancatgggaa agggcccang gttaanctta agcccnaat taacccaaac 480
 caaag 485

<210> 818
 <211> 109
 <212> DNA
 <213> Mus musculus

<400> 818
 ctgagtgaac tcaagaaagc acggactact tctcaaactt ggttcgagaa acaaacccta 60
 cactggtctt ttactcatta aagggttttt atagagttaa aaaaaaaaa 109

<210> 819
 <211> 169
 <212> DNA
 <213> Mus musculus

<400> 819
 gactgagatt cccccacat tnanaacctg gaggcactgg gccacaaaag ccttgctggn 60
 aagggtccgtc ttcatctatt atncanacaa agtggcnatg nggagntgct tttaaanagc 120
 taggnacatg tttagtcaaa tacatcccta aaaaatgggt gaagaaaaa 169

<210> 820
 <211> 139
 <212> DNA
 <213> Mus musculus

<400> 820
aagtgtcttg cgctctgcta ttaaccccat gaaaagagtt ctttccagat aagcggatac 60
ttgcggtctgc gtggagtggg tcccagnccc agtttgctac cagcaatccc aaccaagac 120
acaggttctt ggttaaaaa 139

<210> 821
<211> 178
<212> DNA
<213> Mus musculus

<400> 821
taagtactct gcagtgggac agatgccgtg gaaggctggt ggcgtgcct tctggatgac 60
actggcactt tatagttttc tacggaaaga ttagtcgcaa acaaggcttg tagaagtcac 120
tttgttggtt tttttttaac tttaattac ttaaataaaa cccattgttt tcatagta 178

<210> 822
<211> 315
<212> DNA
<213> Mus musculus

<400> 822
tgactacact acattcancc catntagcaa gcttgtccag atngaatatg cttinggctgc 60
agnanctgga ngngcncctt cagngggant ngatntntga acctnggtaa caaccttgca 120
catattggaa ggagagaatc acttcttgca agttaacctc ggctgactat ggtggggccat 180
accagtagga tctgtctgaag aatcgagcag aggcaggaga agcccaagta caggtaatcc 240
tctggctcca catctgtccc taaacacaca catatatgca ataaataaat aaatgcaatt 300
ttaaataatgaa aaaaa 315

<210> 823
<211> 142
<212> DNA
<213> Mus musculus

<400> 823
gtaccttgct gaactcttaa atggttctaa gagttcacac gaggagtctg gatttaaaga 60
aacacgatga acagttttat tgtaagttcc ccgcaaactt ttgaatctga gcttccattt 120
actgttttgt atatatgcag gg 142

<210> 824
<211> 440
<212> DNA
<213> Mus musculus

<400> 824
agactgagaa catcggatca gaagttgaga cttccctatt gagaagcagc ggaaggaact 60
tcagctgctc atcggggagc tgaaagaccg cgataaggag ctcaatgaca tggctgcagt 120
gcatcagagg cagcttctct cctgggaaga ggaccggcag aaagtgcna cctggagga 180
gccctncagc aagctcgaag gtgagctgca taaaaggact gacataatca agtcaactgat 240
gaagaaggtc aagaccctgg agtccaatca agcagagtgc cagacagctc ttcagaagac 300
gcagcagcag ctccaggaga tggctcnaaa ggccacacac ttcacccttc ttttgaaaa 360
acnttgaggt tggctttcat ttctgatgga ctttattagt ctgaatgctg ggcttccaat 420
gtcaccatta aaagcagagg 440

<210> 825
<211> 247
<212> DNA
<213> Mus musculus

<400> 825
tcagactggg tctgcagctg cccagaggaa gttcgtcac tcgctcagag acttcaagtt 60
cgagttttatc ggcgatgctg agactgacga tgaacgggtgc atagatgcct ctttacggga 120
atcttctaac tttctgaaga atctggaaga acagagagaa atcatggcat taagtgtgac 180
tgaaaccctg attaaaccct tggagaaatt cagaaaagag cagcttggag ctgtaaagga 240
aaaaaaa 247

<210> 826
<211> 312
<212> DNA
<213> Mus musculus

<400> 826
cagagttacc cgtgccacct gctnccaccc actgacngag ctgcgtntct caggggacct 60
ggcagccgcc tggatggcac agttgtggct gctttccacc catccttcgg agtggatttc 120
cccaactctc agttcagcaa ggaccgtctg ttctttgtca gagcgagacc agaaacaaac 180
gcggaacctgc nggatgccac actgggcctt ncgggggact gagggtnгаа ggacgagggc 240
aatttacacc tgcgaagttt tgccacnttt cncaacgggt ncccggcaag ggggggtgac 300
cttggcttta ga 312

<210> 827
<211> 348
<212> DNA
<213> Mus musculus

<400> 827
actgactgag aaatcttcaa gcaagctcta tgtgggngaa ccggannnng nnncangtga 60
aagctanagg ttatnanant tacaaaanaaa ggaatgccca gcaggagcta cagataatat 120
ccctgagaga tgacatcaag agccttcagg accttattga ttctctaata aagatgaaga 180
ttttgaaaaa cacaaatttt naaantttng aanaaccac tgggatctna ctgagaagag 240
tctaaatcta aaagaacccg ttaagggaac atctggtggg gaagaaanga gattaangcg 300
gagcttctgg gagaaaaagg cggncctggc ccaacaactt tttggcct 348

<210> 828
<211> 179
<212> DNA
<213> Mus musculus

<400> 828
agactgggtg gctgaagccg tactatttta tagcagtcac ggagatcaag tgacgatgtt 60
acaaacccag aacaactttg gaaaatgaag ccaaagggaa acctggaaga tgacagttac 120
tcggtaaaaat aatgactata atagccaata attaaaatgt atacatacta aaaaaaaaa 179

<210> 829
<211> 218
<212> DNA
<213> Mus musculus

<400> 829
catgccaaact ccagcagcan aaagaanttg acagggggcca ggaggccac ttgtgccaaag 60
ggtttggcac cttggagggt gtagtggagc gtgcagttcc caagctgggt gcgtgtggag 120
tggctcgcag catctggacg ggcttacagt agtgtggaaa tctgcacatcg tgcacgtaaa 180
accaaaccac aaccaaacaa aaggggagaaa aaaacaaa 218

<210> 830
<211> 165
<212> DNA
<213> Mus musculus

<400> 830
 tgtgcctctg tctcagctga tattactctg ccaatcancc tgagtcctctg gangtggcaa 60
 gaaactgcag tacaccacca gaagattttt ttttactgng attctctcta tggagnccctg 120
 acaaatgcag ctcaactatg cantgtaaga tggaccaata catgc 165

<210> 831
 <211> 462
 <212> DNA
 <213> Mus musculus

<400> 831
 gactgagccc cagaactcca gntgaagctc cagtcggctg ggcacnatgg tgcacatcta 60
 caatcttatt acatgggatg ttgaggcagg aggatgccga gttcagtggtg ngcgtgcatg 120
 tgtgtgtgta tttttatata tgaattacta tatactctca gaccatgtct caacaacacc 180
 tacaaaaata aagangctct agtcagcata atcagtggtt gcagccttga cccaaaacaa 240
 aaaggngnnn ggctcagcnc catgagaaca ctttnggggg agacagaggg atttattttg 300
 gcagcatcgc ctgnggnttc acttganttt tgaattaaag acngcgaaaa aagcntaatg 360
 gccnccaaag gggacctggc tacottanta anggtgnagg gtaantgatt naatcgaanc 420
 ccttcctttt ntttttaaaag gggggatttg ggatcatatt tt 462

<210> 832
 <211> 206
 <212> DNA
 <213> Mus musculus

<400> 832
 gaactgagtc gtgcctttcc ttctgggatt gtaagtgaac cccgtgatca agtggttcacc 60
 gggttcacctg tttaactgtg gaagtgggta tottaocggag aacacaccag ccttggtttt 120
 ctcacgcccc gtgaatgaat gtgtacgccca cagttttacc tgctgatact gtaaggctctg 180
 aaaataaagt gaatgttttc cctcca 206

<210> 833
 <211> 226
 <212> DNA
 <213> Mus musculus

<400> 833
 ctgaggtata attgtgcaat cagcagctct gatgaccgca gtctctttctg acgactgaaa 60
 ctgaattatg caatttttga tgaaggccat atgctgaaga atatgggctc tatccgctat 120
 caacatctaa tgacaattaa tgtaagagtg tgctttgtaa ataattgtga taaaatttat 180
 ctttctaat ttaatacata cacacatgat tttaaatcaa aaaaaa 226

<210> 834
 <211> 146
 <212> DNA
 <213> Mus musculus

<400> 834
 cctagatcct cagagcttga atatatnagc aagacagaaa caatgcttat atnaatggag 60
 gagannaaac nnaggntnnn ngcgaccanc agctcaaggc cagtctggat tacaaaaaga 120
 gaccctgtct cggaaataga aaaaaa 146

<210> 835
 <211> 383
 <212> DNA
 <213> Mus musculus

<400> 835

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| aacgtctgtg | agcagtgaan | actttcatat | gaatgactcc | gcatggatgt | cagctcaccc | 60 |
| ccgagtnctt | tacatngcag | atccctgcag | gctatcaaga | gaagnggtgg | atgatcatct | 120 |
| ggtanaccag | ggatagttta | caggacccat | ntgaaancat | ttttttttcc | tntcaccact | 180 |
| naacaaatgg | acagttttatt | cccaaggacg | gttttgngna | naggcangct | gggonagnag | 240 |
| ggncttggnn | gactttganc | aggtggaacc | catcttgtn | ctccctnatt | ttctaaagg | 300 |
| cccacaaant | gacntccaca | ggngnntttt | aggnnattaa | ctaccaggtn | atttcttaca | 360 |
| aaaatgcttg | ctttgaaact | caa | | | | 383 |

<210> 836
 <211> 181
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 836 | | | | | | |
| ctgagtaa | atcggtactt | tcagaatata | ggaatgagag | gcaaggaaga | aaggacattc | 60 |
| atcatacgaa | gatttgaatc | actttgaaac | tgtaaaggga | tgtagcactt | gctgccaac | 120 |
| taccttgctc | accagaatga | aggaagtgt | tcagcattaa | atggtaacca | taatcctcct | 180 |
| a | | | | | | 181 |

<210> 837
 <211> 168
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 837 | | | | | | |
| ctgtggagaa | gatggaatga | cagntactat | gctcanattc | gcaattacga | anggtctgct | 60 |
| cgaaaatgga | agatgtagac | conagtcctt | ncnccagat | ggacagagac | aggatncatc | 120 |
| tcacatgaac | ctntacagag | atggaatgog | gagagcactc | tggcatcc | | 168 |

<210> 838
 <211> 382
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 838 | | | | | | |
| ctaataggga | tgccaaaggga | aaaatatgat | octocagatc | ctcgcagaat | ttacaccatc | 60 |
| atgtccgcag | aggaggtagc | caatgggaaa | aaatctcact | gggcagagtt | agagatctcg | 120 |
| ggtagagtgc | ggagcttaag | tacatcactc | tggtcattaa | cacacttgac | agcactgcac | 180 |
| ctaaatgaca | ataaccttgc | tcgcattcca | cctgatattg | ccaagcttca | taatctgggt | 240 |
| tacctggatc | tgtcatccaa | taaactcaga | agtttaccag | cagaactagg | aaacatgggt | 300 |
| tctctcaggt | gaggaaacat | ttcattatat | acaattacaa | atttatcaaa | taaaaaactt | 360 |
| atgggatgct | taaaaaaaaa | aa | | | | 382 |

<210> 839
 <211> 231
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 839 | | | | | | |
| aagaggtgca | tccatgccaa | gcacggtgct | acatgcatgc | ccatcccagc | actgagagct | 60 |
| ggagcaagaa | catggcgagt | ttgaggacag | cctggacctn | ctatcccaga | aaggctggaa | 120 |
| atagtgggat | agggggaccc | aaaccacgga | tggtctgaaa | aacaagatgg | aagcagattg | 180 |
| cctcccttta | aaatggtcgc | tatgggaacc | ccaaaaataa | aattaaaaaa | a | 231 |

<210> 840
 <211> 336
 <212> DNA
 <213> Mus musculus

<400> 840
gacctgacca tgcagaggat gatgctcgtg acggttaacg cctcgaatca gcnacggctt 60
gccgttcagc agcagcagac ctttttcaat ccgcacctcg cggaaaccga catcgcaggc 120
ttctgcttca atcagcgtgc cgtcggcggg gtgcagttca accaccgcac gatagagatt 180
cgggatttcg gcgtccaca gtttcgggtt ttcgacgttc anacgtagtg tgacgcgatc 240
ggcataacca ccaccgctca tcgataattt caccgccgaa aggcgcgggtg ccgctggcga 300
ccttgcgttt taccctgnca taaaagaaac ctggtc 336

<210> 841
<211> 261
<212> DNA
<213> Mus musculus

<400> 841
caatcacccg ttgaggcttt atgctccagn gatnacccctg caaagcaaga gaagatgaat 60
caccacnccg gaatnggttc aacagtctac aacaanagtc caagataacc ctcacctcnc 120
ntgactagtg tgcaggcctg accaagcgag gnacagctga aagtttgagc ccatgtttca 180
ttggaaaata anctgcctgc atctcctcgn gnatcaagcg cctgcccttc gtctgtcatg 240
ncgttttggt ttgcaaagcc c 261

<210> 842
<211> 168
<212> DNA
<213> Mus musculus

<400> 842
ctgctgcctt ttctgctcct gaagccatgc tcctgacagc agcggcctgt ggtgacagta 60
gtgagacctg cttatcaggg tgtactaccg ttttgctatt caaactnaat tacnccaatt 120
cagttgtnta ataactcaga aggcatancc atatttttga gtattgtg 168

<210> 843
<211> 147
<212> DNA
<213> Mus musculus

<400> 843
atgcaagtac ctgctcactc cgcccttctn tcttaencac ccaggccccc caaccctaag 60
ccaacttgag tccccactct gtcacctga ttccaatgaa gatggtgtgg atttctnata 120
ctanaaataa tagcgtctct tgttttg 147

<210> 844
<211> 102
<212> DNA
<213> Mus musculus

<400> 844
ctactgcaga cccggccccc caagcncnct gactgaaaag cngggcatcc gngtntctga 60
gtntcttanc aataaagnga aatgcaatct taaaaaaaa aa 102

<210> 845
<211> 172
<212> DNA
<213> Mus musculus

<400> 845
agactgagaa atgactgcac gactgagcaa cctcngaggc agngtcatca atgangtagt 60
cctgagtttg cttaagatac atgtggccct acctatcct ggaggctggg ggtgcccttc 120
agcactccac actccgtttc aataaagaat aactaaatcc caaaaaaaaa aa 172

<210> 846
 <211> 106
 <212> DNA
 <213> Mus musculus

<400> 846
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 ccttcccagtg tgctagtatt aaaggtgtgc accactaaaa aaaaaa 106

<210> 847
 <211> 160
 <212> DNA
 <213> Mus musculus

<400> 847
 ggcgctccacc atgaccanca gangctgatt tttgccggct tgccgctaga aaatggctcn 60
 cactctctct gattactaca tccatnaacg agttaacacc tgcacctgnc ctacnctna 120
 ggggtgnnta ttaatnattc aggagctgca ttactactgg 160

<210> 848
 <211> 140
 <212> DNA
 <213> Mus musculus

<400> 848
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 ntgaacatct atcagggcgt gctcaaagta tcttgtgctg angagtggcn ggaangtata 120
 gacggaggggc gaacactcca 140

<210> 849
 <211> 330
 <212> DNA
 <213> Mus musculus

<400> 849
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 cagtttnnaa aaanccttgn cnttgngan ctctaanant ttgatccagc anccaggcag 120
 gatacacttg ttggcccaag gtcccnaact tatacagang aggactgcct ggncctggact 180
 catggangna cgacactcct aatccttgag agacttgaag tcccagggat tggggagggc 240
 ctggcaggat gttgttgaat gggtgtgggt gtnaaggccc cccttattga aaatgtacca 300
 aagggtcggg atatgggatg aaaaactgtt 330

<210> 850
 <211> 141
 <212> DNA
 <213> Mus musculus

<400> 850
 tagaaaagcc ttggctgttt gccacnggcc tctggaccac tacgactttn tggatcaaat 60
 ctcaaggagc tnganggang atganctgtnn cnagaanant cnnntccact gttttgcaag 120
 aagttacaag ggaggacctt a 141

<210> 851
 <211> 122
 <212> DNA
 <213> Mus musculus

<400> 851

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgggacctt | gaatttaant | tctccctatg | antanntgga | tgctganncc | gtgaaaagag | 60 |
| ctaaaatgaa | ccagacctct | gcgtgtgact | attaaaaacc | ctgaaaagtc | caaaaaaaaa | 120 |
| aa | | | | | | 122 |

<210> 852
 <211> 343
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 852 | | | | | | |
| gctgggaaca | ggggaagaca | ctctncctac | cganggctna | ttntggttggc | tgngaagaag | 60 |
| agnggggaatg | ataccttggg | nagaaagaan | cttgaagctn | ctggccagag | gacacttgcc | 120 |
| tttgaggagc | ttcgnaggca | gctaganaan | ctgctgaatg | acggnggcag | caatnaaccg | 180 |
| tgtgttcgac | tggaaggacn | ncccaacctt | aaatgagcca | gcaggattag | ccagtccant | 240 |
| taccatntag | tttnggagcc | ccttcatgga | caaaccntgt | cctgtttant | ttntgcaaat | 300 |
| tatcttttga | agactccctc | ttccgaaggt | ggggatttgt | ccc | | 343 |

<210> 853
 <211> 336
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 853 | | | | | | |
| gccgagaggc | tgggctgagc | tggagggaat | ttctagcana | nggccacaga | ngttgngcat | 60 |
| ttgntggctg | nnnanaaggt | gnngaatttc | cttnggagaa | naatcctgaa | gctnctggcc | 120 |
| agangacact | ttgcctttga | gggancttnc | gtangcaanc | ttnanaancc | tgctnaaatg | 180 |
| naccgcgggn | atgtaatcaa | cccgggtgtc | ttcgacttgg | gatangaccg | ccccnaccct | 240 |
| ataattgaag | ccagccanga | ttagccattc | caaattanca | ttttattntc | ngaagccccc | 300 |
| tttatttgac | naacctggnc | ctgggtttatt | ttcttg | | | 336 |

<210> 854
 <211> 167
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 854 | | | | | | |
| aagggtgggac | aggagncatc | actctgncaa | tnaanctgan | nntgcggaaa | ggaanagaag | 60 |
| ccacaccaca | ccaccagagg | gtttttttga | tgcattttctc | totatggagc | tcaactatat | 120 |
| aacgtaaggc | agcccaatac | atgtgtgtca | ttagtgaaaa | aaaaaaa | | 167 |

<210> 855
 <211> 348
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 855 | | | | | | |
| atctcatgga | gaaaagctgt | cgaaaactgan | ganaacanaa | gtncngatgg | ggctctngcg | 60 |
| gntntgaaag | cttgnnangt | gtcnacagag | tentcatnga | ntctgcctan | ncanagggaa | 120 |
| tnnatccngn | ctnttttttt | gccagattt | tgattggctc | tatttgctg | aagagaaagc | 180 |
| tgttccggat | cangcttcaa | ggagcacttc | agaaacatct | ggtaatatg | tcagaccagg | 240 |
| ngaaccccca | acanaanatg | tgtcanactt | ggtntataac | anaatganct | ggnagcaaga | 300 |
| tttanaatgn | gcaaccacca | ggctttcaga | aactagacca | atggaggc | | 348 |

<210> 856
 <211> 238
 <212> DNA
 <213> Mus musculus

<400> 856
agcagggtgct gtcacctggg caccctcacac attgaccaga gtatcacgct gaaaagtgat 60
ctcatttcttt catggatgcc ancatgaaga aatcatggga ttttggtttt tttaaacaaa 120
ancattgnat attanntttg cttttcttct tcaagtctca acacataatc ctggctgacc 180
taaaagctca ctggnggaac ccagggggac ctttacnttg ggggactgga gggggcct 238

<210> 857
<211> 269
<212> DNA
<213> Mus musculus

<400> 857
caccttcccc cagccactgg ntgaaatcct cagtggttat tcatgaacac gcacccacca 60
tgtttttatgg gactcagtn gacatgtctc ctcccaccaa gaataagctg aagcgacaga 120
gccagctcct atccacaatg ctgtcccgga cactgagcta caaagtattg agacctggat 180
tocaccttct gcagcctang tgccagt gac gacccctcag agctcttcac gcantctctn 240
ggcccccggn gtctctcaagg tegtittgga 269

<210> 858
<211> 192
<212> DNA
<213> Mus musculus

<400> 858
gggctttacct cagcatgtat gtctgtctca ctgacatcac tctgccaatc aagaccttgg 60
aagcagccaa aaactgcagc ataccaccag aagatttttt ggtgcatttc tctatataga 120
atcctgacaa atgcagctca actacacaat gtaaggtgga ccaatataac cgtattgtta 180
gcaaaaaaaaa aa 192

<210> 859
<211> 208
<212> DNA
<213> Mus musculus

<400> 859
tgactgtgtt ggggcatgga gtaccatacc gtcttggaat gccttgccca ggggaagaca 60
gtgagtgttc taagtgtctt gcacacttat tactcacagn ggaaaactaa gaactttttg 120
ttttggttta ttttttgaga caaggtttct ggctgtcttg gaactctctt tctaagacca 180
ggctggcctc caccctctcaa attggctg 208

<210> 860
<211> 427
<212> DNA
<213> Mus musculus

<400> 860
agactgagaa cctgctcaag ccgctgccat ggatcccagg ccactacott ctttcaagca 60
anaanaagtt ntacgaatgt gggcttnttg acaccgaaa caaagtgggt ggcagtggg 120
ggcccgccgc gtggactgtc tgaagctatg gctcatgtgg aaggcacagg gtgggcagg 180
gttgagcgg cgcacgacc aggcctttgc tctcaccgg tggncntgt gctcnaggan 240
cncatgggtga agaattngac catgacnann nggtaccaan cncatgggac ccggccnanc 300
tttttnccaa tggngngngn caaccccata ctggccnagg cccanataaa tntccttctg 360
ggcaaaactga aactcctggg ccaggacctg tgaactgctt ttgntttttt ggcccaccca 420
aactttg 427

<210> 861
<211> 306
<212> DNA

<213> Mus musculus

<400> 861

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cactgaggat | gacacacgag | ttgtgagagt | gaaggttata | agctggcata | ggcctggcca | 60 |
| agaaagacat | cttgggagcc | aggtttccct | gggaactgcc | tgtgaccaac | tccaggggat | 120 |
| ntggcgccct | ctcctggnet | ccacaggcac | tgcncacatg | nncacacaac | ttaaattctt | 180 |
| ttaaagaaga | aatgttaaag | caggttaaag | ctcctgggtg | agagaaagga | aaagaccatc | 240 |
| nnaagtgata | aatacctgga | atctacagat | gctttttttt | ttaattaatt | aaaagtttta | 300 |
| tttttg | | | | | | 306 |

<210> 862

<211> 101

<212> DNA

<213> Mus musculus

<400> 862

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| actgaggttc | ccagagtcta | cottgtgaaa | tgttttaggc | taaagaagag | tccagcaaca | 60 |
| gctaactgag | agacctgaat | aaaagggtaa | attaaaaaaaa | a | | 101 |

<210> 863

<211> 133

<212> DNA

<213> Mus musculus

<400> 863

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cattgtcaaa | attctagaag | acattgaang | gcatgaaaga | aggcntattg | gaganaaacc | 60 |
| ctatgnaccg | tnatcaatgt | ggnanagcct | ttgcatgtta | caatcatctc | caaatacata | 120 |
| agagaacaca | tac | | | | | 133 |

<210> 864

<211> 196

<212> DNA

<213> Mus musculus

<400> 864

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cttgccctgc | tcaagtcctt | acggaacaag | cgaggcccac | gtgctgctga | aggatcggtg | 60 |
| gctcctcttc | ctggaagncn | gnitttctct | agcactctnc | anatgaanac | gtanaacnnt | 120 |
| canctctgnc | tacatcatgc | ctgcctggat | gctgncatgc | ttccaccttg | atgatggact | 180 |
| gaacctctga | acctgt | | | | | 196 |

<210> 865

<211> 633

<212> DNA

<213> Mus musculus

<400> 865

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ttagactccg | ttagtgccct | gctaagngaa | gatgnattaa | actcgcaggt | gnacaaccaa | 60 |
| cgagtcaagc | atntctgcta | ctaccaaggc | atgaagccct | atctatgcta | ccagctggag | 120 |
| cagttnaatg | gccaagcgcc | actcaaaggc | tgcctgctaa | gcgagaaagg | caaacagcat | 180 |
| gcagaaatcc | tcttccttga | taagattcgg | tccatggagc | tgagccaagt | gataatcacc | 240 |
| tgtacactca | cctggagccc | ctgcccacaa | tgtgcctggc | aactggccgg | cattcaaaag | 300 |
| ggatcgtcca | gatctaattc | tgcataatca | cacctcccg | ctgtatttcc | actggaagan | 360 |
| gcccttccag | aaggggctgn | gttctctgtg | gcaatcangg | atcctgggtg | gacgtcatgg | 420 |
| acctcccaca | gtttactgac | tgtctggacaa | actttgtgaa | cccgaagg | cccgttttgg | 480 |
| ccatggaaag | gattggagat | aattagcang | cgcccacaaa | ggcggttca | caagatnaaa | 540 |
| gagntctnng | gtcttgcaaa | tttgggtgaat | gacttttgaa | acctncagct | ttggaccccc | 600 |
| ntgtcttnag | aaggcaagaa | aataatttaa | gaa | | | 633 |

<210> 866
 <211> 303
 <212> DNA
 <213> Mus musculus

<400> 866
 gactgagaag aaaagggggt caaaagcggt ccaccgacgc nccacnccga gaacaaccac 60
 atgattgntn caanccctaa gccncgctg natgtcctgn cctnaagang anccctgata 120
 ctgctaaatn cctgctttac tgtgnnnng ccaaaagaaa aanttccact gccccatccc 180
 tactgctgag gtgcatttcc nctaccccat tcctcctgct gagaagaact tccntttng 240
 cttgggcatt naaacnttgg gcctggntaa tacantgggg ccttgatgct agtaaaaaaa 300
 aaa 303

<210> 867
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 867
 caaaaagata tttcntagg gatngaccaa gtaatactgg agagaaaccc tttgaatggn 60
 ttcaatatga nggagccttt gcnagaaacc atcatcatca gtt 103

<210> 868
 <211> 375
 <212> DNA
 <213> Mus musculus

<400> 868
 tgggtccagg attcggctca naatgacgtc angagaaggc anngcnggtt tttcntnttn 60
 aggccatgtn ttctacacc gctcgaggc aggaatgttc tcacatggga ctttctnca 120
 gancagatca ngacgaggac agaggagctc atagcacaga ccaagcagggt gtatgatncc 180
 gtgggggacaa tcanccctgga ggatgtatct tacganaact gtntgcagggt gctggctgac 240
 atacaagtga agnacataac tggaaaggac catgctggac ttccctcaac acgtgtcgtc 300
 tgacngagaa gtgcgggctn nnagcncaaa agcggacaaa aggccttctn gntttgatat 360
 tgagatgagc ctgaa 375

<210> 869
 <211> 359
 <212> DNA
 <213> Mus musculus

<400> 869
 ctgaggagaa gatggagggg ctgaaagaca agaccctgca ggagctggag gaaatgcaga 60
 atgacccaga agccattgcc cggctagcct tggagtctcc tgagggttcag gacctgcagt 120
 tagaacgaga gatggcactg gccacgaacc ggagcctggc agagcaaaac ctggagttcc 180
 aaggtccctt ggaaatcagc ccgctctaac ctctcagaca aataaccagga gctgcggaag 240
 cttgtggagc ggtgccagga gcagaaagcc aagctggaga aattttcctc ggactgcag 300
 cctgggacct tgttgaccct tctgcagatc gaaggcatga agatcgagga ggagtctga 359

<210> 870
 <211> 426
 <212> DNA
 <213> Mus musculus

<400> 870
 actgagtggc cagaaccccg ttcccagtga gaagcttcca gtgcctgaca gtgtgctaag 60
 tatgttcccc agcacagagg aagggcctga ggacgacagt gcaaagcatg gcggtcgaat 120
 ccgaaccttt ccccatgagc ggggcaactg ggccaccac atctacatac cgtgtgagtc 180

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actgactaaa | gtgcctctag | ctctggctag | gaggaagaca | ccagggctgc | tgtgtgctgg | 240 |
| actcanctcc | caccgcanac | ctgaggagac | aatggaccgc | ctaactgctg | aagtagacct | 300 |
| tctgcactg | ggtgttntgt | cagctactgg | gtgnntcatt | tctgcacctc | taaagtgggg | 360 |
| gggatgctat | ctatctcttt | ggaaagatta | aatcagataa | tctatgccna | ttagcccaat | 420 |
| tcgcaa | | | | | | 426 |

<210> 871
 <211> 616
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 871 | | | | | | |
| actgagaagc | aagaagaaac | ctcaagaacc | tagctcagat | ctgcaagata | agaacgagga | 60 |
| gcaggagaag | tcctccagtt | gcacaggggt | attcaaaggt | ggaccattct | ttttctgtct | 120 |
| gacctgtggc | aaatgtttca | aaaagaacac | cttcctcttt | aatcaccagt | ttcctgtgag | 180 |
| gtcccggagg | ctggcagtca | caaatccaca | aagccgc aaa | ggcaagggt | acaaggctca | 240 |
| gcategtgga | gagaggcctt | tcttttgtaa | tttctgtggc | aagacttacc | gtgatgcttc | 300 |
| tggactgagc | cgtcccggga | cgtgctcatt | taagttatag | gccccgttca | tgcctgagt | 360 |
| gnggaaaggg | gttcccggga | tcaagctgag | ggcaaccgcg | acctgaaagg | acacccaaac | 420 |
| aaagccagca | gctacaacca | ggctggcaac | caggctacaa | ccagaggntt | gaagaagagg | 480 |
| ggtccacctc | cacacctaaa | tccaagcgcc | cgctcaa at | atttaaagt | atccccggac | 540 |
| catggcccag | gctaagnacc | gaaaacggac | ctcanccttg | atgcagatca | cttntttcag | 600 |
| gggccttaaa | aaaaaa | | | | | 616 |

<210> 872
 <211> 331
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 872 | | | | | | |
| tttgcaagga | tggaacctgn | ctgotgcaag | ctatgnaetg | gagtgtctgt | gcagccgctg | 60 |
| ncntntgtgc | tactgcctct | tattgacgca | gatgaaatat | tgatgtctgt | gctgtctggct | 120 |
| ggagcccagc | cagcccgggc | caggggtggg | gcagggaggg | cgggccaaag | agaaggcatg | 180 |
| cctcacgggg | ataccagcga | gcagggcccc | ggccccact | ggctctatct | tgcctgtctg | 240 |
| actcttggtg | gccccgggg | agggagaanc | gtgttggagg | ctggacatat | cctaatactat | 300 |
| cattgcacct | cattcatcct | tggaaaaaaa | a | | | 331 |

<210> 873
 <211> 115
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 873 | | | | | | |
| tccagcttct | cctgcgccat | acctgcctgg | aagctccgag | gcttctgcct | tcataataat | 60 |
| ggacagaaac | tctgaacgtg | taaaggagcc | cctattaaat | gttatccttt | ataaa | 115 |

<210> 874
 <211> 111
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 874 | | | | | | |
| catcaaccag | acccggctcg | agttccactt | ctctggtaga | atggccagcg | gcatggagggt | 60 |
| ccggcagacc | cgcttcattg | tcttcgtaca | gttccccac | aatgccaccc | a | 111 |

<210> 875
 <211> 189
 <212> DNA

<213> Mus musculus

<400> 875

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agactgagac | agggtctcat | gtcgtcctgc | tgagagccac | ttoatcatgt | anctgagggc | 60 |
| gaccttgacc | ttcctgctgc | cttcacagtg | ctgggaacaa | gtcttccatc | actcctggcc | 120 |
| tgaaacgttg | cctctgatcc | tagcaccatc | atagagtaat | gaaattcata | taaagtgaag | 180 |
| aaccgacta | | | | | | 189 |

<210> 876

<211> 177

<212> DNA

<213> Mus musculus

<400> 876

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tatatattcaa | aaataagcct | gaacacacca | cctggcacia | nagtgaagct | ctctggcact | 60 |
| gtnggcntta | aanaacngat | tcctgctctt | aagtgaactc | taacaccaca | gntcttgggt | 120 |
| gtgaagngga | acacctaatt | gacaagtggg | ctttacanag | aagcttatta | aagcata | 177 |

<210> 877

<211> 121

<212> DNA

<213> Mus musculus

<400> 877

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| tccactacca | acattgctgg | acattttcaaa | tgatgaagtc | tcctntgggg | gctnngtcaa | 60 |
| aanccttttc | ccaantccnc | aaaaantccc | ttnaaaaatt | gnngaaccgg | aacccttgct | 120 |
| c | | | | | | 121 |

<210> 878

<211> 106

<212> DNA

<213> Mus musculus

<400> 878

| | | | | | | |
|------------|------------|------------|------------|-----------|------------|-----|
| gactgaggat | gaaggcttct | ctgctctagg | ctttccctca | gacctgaag | acatctgtnn | 60 |
| ctcattttcc | atctgcccc | ataaagaagt | ttctatgtca | ggcaaa | | 106 |

<210> 879

<211> 434

<212> DNA

<213> Mus musculus

<400> 879

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|-----|
| ctgaggggaaa | gacacctgcc | taagatcaca | gggtcaaacca | ggcatgggtg | tttatgcctg | 60 |
| ttctccaaac | attaaggaag | tanacgcagg | aggatccgag | ttcgaaccca | gctctgaatg | 120 |
| nacagagaat | tcgaggccag | ctgggcctac | aggaccggtt | tctcaaccaac | caaccaacca | 180 |
| tggaaccag | agaaactttg | atcctcagag | agatctanaa | gcctgctgaa | gcctgcaagc | 240 |
| aagcctacaa | cctccctcaa | gcttcctcgc | cctaaaccgg | anagtcaccc | cctgagcctc | 300 |
| cttctgctg | gggaaccac | tccttggtea | gnagtctcca | aatgaagaaa | ccggaagagc | 360 |
| cagagccgac | tgangtgngt | ncatgaacat | gcgcaagcct | tcgngcgggt | ggnttaactt | 420 |
| ctggtttttc | ccaa | | | | | 434 |

<210> 880

<211> 191

<212> DNA

<213> Mus musculus

<400> 880

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tttgctactt | aaggtaccaa | gtacctggct | ccgtgcattt | cacaggcnca | gtgggcanag | 60 |
| ctgtaagcta | cattcaggct | tnocttggca | cttaaggant | ttccaattcc | ttgcctgcct | 120 |
| ttaactgggg | aaagctccan | caatctntgg | aaggttctct | gggcaaata | ctactgctgg | 180 |
| gaggcattca | a | | | | | 191 |

<210> 881
 <211> 314
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|-----|
| <400> 881 | | | | | | |
| ggcatgaaag | aactcntgct | ggnagaaaac | cctatganta | tgcncatang | ggataaatcc | 60 |
| tnccatagtc | tccttcatct | tcaaaaagctt | gatngaaacc | annctagaga | cagacactct | 120 |
| gaagtctttc | nccatagtna | agtgtctgcg | gtgtcgaagt | cctctccana | tnnataaagg | 180 |
| aacagacact | gncataaaac | cctacaaaat | nantagctgg | gaacgattgc | tttttttnnga | 240 |
| cccagacactc | tgatgtcttt | nnacatagna | aagtgtctgc | gtgtcaangc | ctcttgcaaa | 300 |
| taaataaagg | aacc | | | | | 314 |

<210> 882
 <211> 356
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 882 | | | | | | |
| gcaaaggggg | agggctgaat | tattcacccc | ctttttaaac | aagaggggtgc | tctgcagctt | 60 |
| cgccactcc | agagccatct | ttgatcctaa | gttgccaaaa | tgactgaacc | atcacagaag | 120 |
| aacaactcca | ctcaacagga | gctcactaac | cacttgtttc | cagagaaaag | cantcagatt | 180 |
| ggacagaagc | aactgcaaca | gatngaacgg | cagntaaagt | gcttggcatt | tnaaaaccct | 240 |
| gggacctcag | gtgggnnnga | tttttaacct | ncgaggacat | ggcaggtagn | aaaaaggaat | 300 |
| anncggcgg | atngttncaa | gcatingaatg | gagctacctt | ttttcctgtt | gaaagt | 356 |

<210> 883
 <211> 404
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 883 | | | | | | |
| ctctgggtgcc | tctgagcctc | gtgggcagtg | ccagcaaac | cagcaggagg | ctggacccaa | 60 |
| ctccagagca | ccagagagag | cagagcttga | gacagcagg | gcctccatct | tctctgctgc | 120 |
| ccacagggca | ccttgctgtc | cccacaaggc | cagtggggcc | atggagggat | tgtgcagagg | 180 |
| ctcacggggc | aggtcactgg | cagagtggag | tgtatgacct | gcggctgggc | cgctcgtgtg | 240 |
| tagccgtgtg | gtgtgaacag | cagcaggaag | gtggaggctg | gactgtcatc | caaaagacgg | 300 |
| caggacggct | ctgtcaactt | nttnaccaac | ttggcagcac | ttacaaaggc | gggctttggg | 360 |
| cgtccagaan | gaaaatactg | gctgggcctg | gaacctgtgc | atca | | 404 |

<210> 884
 <211> 217
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 884 | | | | | | |
| agcgagccc | agtgcaggga | ggctgggcta | cacctaccaa | gagccagtct | gctactcagc | 60 |
| cagcttcccc | tgctaggagc | cgtctttccc | agaccgcggg | gccagcctgg | aggagcaagg | 120 |
| aacagcagca | atgtgaccga | caatttgtgt | tcaaagaacc | tcagctgggt | gtccgtgcag | 180 |
| ccccagaacc | cagagtgtat | gacaaggagg | ggtgtgg | | | 217 |

<210> 885
 <211> 376

<212> DNA

<213> Mus musculus

<400> 885

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcctcgaga | ctatcatgga | gggctccccg | ngcnaaggcc | tgtacttctt | tgngtncgna | 60 |
| agctgcagtg | catttgtggt | gactgggggc | ctgctgattc | tcttcagcct | caaccttcat | 120 |
| atgaggatcc | cccagatcaa | ctggaatcta | acagatttgg | tcaacactgg | actcagcact | 180 |
| ttctttttct | ttatcgcttc | aatcgtgttg | gctgctctaa | accataaaac | cggagcggaa | 240 |
| attgctgccg | ggatatttgg | cttcttggca | acagcagcct | atgcagttag | cacattcctg | 300 |
| gccatgcaga | aatggagagt | cagcngtccc | gccagcagag | cactaatgac | tacatccgaa | 360 |
| ctcgcaccga | agtcga | | | | | 376 |

<210> 886

<211> 171

<212> DNA

<213> Mus musculus

<400> 886

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agactgaggg | ctgaactgaa | aaaggatcaa | aggcgtctaa | aacgtctttg | gagccccctc | 60 |
| tgaatacatc | tgatggtgta | tacgcagcta | acagacattg | ggcgcaacag | aactaatcga | 120 |
| ctgtgtgatc | ggttatgcca | ttaaattctt | tctagaagct | gaaaaaaaaa | c | 171 |

<210> 887

<211> 236

<212> DNA

<213> Mus musculus

<400> 887

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cagttcctgc | agcagcttaa | catcttggat | tataagcatg | agactcaaca | tccagcttga | 60 |
| actctccatg | ctcactgacg | tggataactt | cttcaccgca | gcaaccttca | agaagggtct | 120 |
| acagaaaatt | agcattagtg | taaatttcag | taatgactga | ttaactaaat | atatgtttac | 180 |
| cagaattatc | aaacttttna | aatnaanagt | cataccatca | aattgaaaaa | aaaaaa | 236 |

<210> 888

<211> 384

<212> DNA

<213> Mus musculus

<400> 888

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gagggtgggt | ctttcaagaa | gcacaggatg | tcatcctgca | actgagaaaa | gaatgctact | 60 |
| accttacttg | tcagctgtat | gcattgaaa | agaagctaac | ttcccagcaa | agtgaagaaa | 120 |
| cgactcagng | ctgcaaangn | nattngggaa | naaangtgaa | gatttgnggc | cananacatn | 180 |
| attgnntttg | ccgncggttg | atacaatcct | gangagctga | gtncantcat | tgggactnnc | 240 |
| cgngctggaa | agagaactgn | nontctnnc | cccacnnaaa | gaagctgnnc | tctgatctct | 300 |
| atgcatgctt | cctcnggcct | ccccccaaat | aagtaaataa | tgtttttaaa | atgtatagac | 360 |
| aaagaagaag | aagtttttaa | aagc | | | | 384 |

<210> 889

<211> 380

<212> DNA

<213> Mus musculus

<400> 889

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| gaggcgctgt | gaaacgcgtg | gacagaccaa | tcccgacctg | aggagagctg | gttccttctt | 60 |
| ggggaaggcg | cagatttggg | atthttgaact | tctgacgctc | tcgccaggaa | aaggtgcgct | 120 |
| ctgtgtcagt | gtatccacca | tgtcggggcgt | gcagtcctaaa | gcagccaggc | ttcaaaagga | 180 |
| gcggaagaa | aagctgtcgg | cagacaggga | gagaaaaacg | gccacatctc | tgtgcttaaa | 240 |
| acacagcgaa | gtacctgcac | ccatgatgaa | gcagtttaat | gctttaatgg | aaatgcaaga | 300 |

ggtgatgttt gcagagatga gagaaaccta taaaaacgat ataaaggaaa tgcttgtaa 360
aacgaacagc accttgggtg 380

<210> 890
<211> 328
<212> DNA
<213> Mus musculus

<400> 890
acactgagtg gcaaagtgct aaccacaccc tctcagcagg atcccgcgcc tcaagagcct 60
taggtcccgc cccacactcc ctcaaaccct cagtgcagcg cttgttgtca ggcgcaatct 120
cgcatcgatc cggngaggcn gctacgtnga gctccactng gncccaaaag tacctgcaag 180
cgctncacan ttgcgctcgg cnccttggct ttgttctnac tttccgagat atccactgca 240
tcttgagtcc tgcattccact cccgggaggg ggctgcggca agctcngtna tggaaanaaa 300
gagcgtgata agccagctag acaggtgg 328

<210> 891
<211> 165
<212> DNA
<213> Mus musculus

<400> 891
ctgaggaccg ctgggcagaa tgtcacgatg gatgaggggg gcctgcccct gctcccogac 60
agncttgtct accanattctt cctgagtttg ggcnnnnna atgngntggc tactgggctg 120
ttataccatc aanggaagc tgagtcngga atgagttctt atggc 165

<210> 892
<211> 383
<212> DNA
<213> Mus musculus

<400> 892
gaaactgagc atctgcccga gaaaatgact ttccagccct taaatcatgg tttttcaaca 60
tcagcaaagt gcttaacgcc tcctccttca aaagataatg ctctgcggtt gaacattgag 120
gacctcatag agaaactgca ggctggagtg atggtaaagg atcagattag tgatataaga 180
atatctgaca tcatggatgt ttatgagatg aaactttcca cattagcctc taaagagagc 240
aggttacaag atctcctgga agcaaaaagcc ctggctcttg cacaggctga cagactgatc 300
gctcagtatc gctgtcagag aacgcaagca gagacagagg cacgaacact tgcgggtatg 360
ttacgagaaa gttgaaaaaa aaa 383

<210> 893
<211> 122
<212> DNA
<213> Mus musculus

<400> 893
ctgggcagac ggccataatn gcttactngt gnaactctna tgcggnaagg ccaaggcaga 60
acagactnta nnaaagaanc ngngataatt caggccaaga ngagaaaaac agcacaggat 120
gt 122

<210> 894
<211> 147
<212> DNA
<213> Mus musculus

<400> 894
acagactgag atggacagtc tgaggctgag agagggctag tgatttctcg gacacttggg 60
cagtagnacc nataccancc ngtagctnng gatnccgangg cnntggagag ggngctgcaa 120

cagccccttg agacgaatac cactctg

147

<210> 895

<211> 455

<212> DNA

<213> Mus musculus

<400> 895

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atccgaaagt | ggacccccnn | ttagcgcgcg | ctncacctac | aagatgaact | cntaggcgaa | 60 |
| gaaacnctgt | ggtactgccc | actnccccg | cncctcccac | ggatggagca | anattctgga | 120 |
| ggacgtgcn | ggggcaccg | ctcaagatcc | tgttttcact | gccctggccc | cggaagancc | 180 |
| cccagaccca | tncccaang | ctgaggactc | tgagatccat | gnontgagcn | gatcttccat | 240 |
| caganccggg | cctaccgtgg | ctatanaatg | agaggctngn | ggttcncggg | ggaagctntg | 300 |
| agacagaagt | acgantggcc | tttngcanaa | cttggatatc | cggctngaag | naagataatc | 360 |
| antcccnont | tnnacattct | gccanccncc | ctanatgcct | taaggtttac | anccgtagat | 420 |
| tggtnctctt | ggtacncaag | agcccttggg | catcc | | | 455 |

<210> 896

<211> 270

<212> DNA

<213> Mus musculus

<400> 896

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgagattac | caaagagttg | tcagctgttt | ccaaggtcgc | cgtgggaggg | ggaggatgga | 60 |
| gagatggagg | aaatccctgc | tgctgtcgca | actgggcgaa | cccacaggcc | ttggcagctg | 120 |
| ggggctgcag | ctggtgacct | tggccacagg | cactgactgc | tccctgtccc | ctcaggacct | 180 |
| accccatccc | cagccacacc | actaccgtga | ttcctccaaa | gatccaaaac | tttaattaaa | 240 |
| aaaaagtctt | ntaaaaccga | aaaaaaaaaa | | | | 270 |

<210> 897

<211> 308

<212> DNA

<213> Mus musculus

<400> 897

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactggatga | ttgtggtctc | ctggacggac | tgccgagcca | ctgaattaca | cccatcttct | 60 |
| ggccacacta | cagaagttgt | ctatggagtt | gaaatgttta | ttgcagtaac | ctctgacctt | 120 |
| atgtgattta | aggaacngnn | ntcctgagat | nagaactgnt | nngccnngaa | gancaangag | 180 |
| aaaacacggn | agccgctgtt | gancggttca | catttgangt | caantccacn | cctacaaaaa | 240 |
| gcacgttngn | tgtgcacaga | nagantttcg | gggggtnatt | tgntggangt | gttcagtgtg | 300 |
| tgctaagc | | | | | | 308 |

<210> 898

<211> 171

<212> DNA

<213> Mus musculus

<400> 898

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgggtatct | agccagcttc | caggaccagg | tgattggaaa | cctcagtgat | ttgaactaag | 60 |
| agccaacaaa | gccttgggtt | tgtggcacac | tottcacatt | ctttgcacag | ctctttttgc | 120 |
| tgttaaaatc | tgactgggat | ttttaaaaat | gaagcaattg | aaaaaaaaaa | a | 171 |

<210> 899

<211> 270

<212> DNA

<213> Mus musculus

<400> 899

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttagggacat | cacataagga | cctncancct | cagtctngga | ctgtacgtct | notaatgtga | 60 |
| ggaagaatat | tctctgctgg | cttntatcct | actgacactg | ggggttganc | tgcccttgnc | 120 |
| tgaccattct | tttatnngct | ttatgttnnn | tntaaaacaa | acttttatnt | gnntctggan | 180 |
| antataaaat | aacaggccnn | ggaggncnag | cangccttg | aatggacatg | tgaattattg | 240 |
| tcttgcatga | atgctctacg | gccaccactt | | | | 270 |

<210> 900
 <211> 339
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 900 | | | | | | |
| caccaccccc | cagtgcccg | tccacgccct | tgccctggacc | accaggctcc | ccgcgcctct | 60 |
| ccggcggaac | ccccttgac | tcacctctgc | acacgcctcg | agccagccct | acggggaccc | 120 |
| caggaacgac | gccacctccc | agcccaggcg | gtggcgctcg | gggagccgcc | tggagaagtc | 180 |
| ggctcaactc | catccgcaac | agcttccctg | gctccctcgc | cttcaccggc | gcaagatgca | 240 |
| aggtcctaac | cggcngagga | natgtccagt | ttgacaccag | aatcttntcc | ttgagctggc | 300 |
| aaaacgctcc | tggttccggg | aatttcactc | tcttaagaa | | | 339 |

<210> 901
 <211> 387
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 901 | | | | | | |
| gactgagctg | tacggttctg | tgaccggngc | catctaata | agccagaccg | ctgccatcac | 60 |
| tgttctgtct | gtgccatgtg | tgttttaaaa | atggaccatc | actgcccata | ggttaataac | 120 |
| tgcatatgat | tttccaacta | caaattcttc | cttcagttct | tagcttatto | cgttctctac | 180 |
| tgccgtgtaca | ttgctacaac | agtcttcagc | tacttcatca | aatactggag | aggggaattg | 240 |
| cccagtgttc | gctctaagtt | ccatgtcctc | tttctcctct | ttgtggcctg | catgtttttt | 300 |
| gtcagccttg | tgattctctt | tggttaccat | tggttggctt | tcagcagaaa | caaaactacc | 360 |
| ttanaggcct | tctgcacacc | agtatttc | | | | 387 |

<210> 902
 <211> 148
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 902 | | | | | | |
| ggggaactct | caaaaggaac | ggacgggaan | catggctggg | catcatatan | tgactgcct | 60 |
| cgnanncnan | gaattacggg | ctcggtaaac | ganatttttg | ccctcctcct | tgagtgtatc | 120 |
| ttatgggcag | nggttggaac | aaaaaaaa | | | | 148 |

<210> 903
 <211> 273
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 903 | | | | | | |
| aggactgtgg | tcggcanaca | tgctaggaag | accacaggct | gccaccctgg | tggaagccct | 60 |
| gggaagtggg | gagagccaga | gatacctggg | agtctccgga | gatccatcag | agggaccgag | 120 |
| ttctgttggt | gaagcagaag | tttccccctc | caaaatcatc | taattctttt | gcctgcttgt | 180 |
| ggaagacacg | aaagggtcac | gtgtgtctgg | tttctgtttt | gtgtgntttt | gngtatgtgt | 240 |
| ttaaaagcta | tgtaaaaatc | tagagaagcg | aaa | | | 273 |

<210> 904
 <211> 225
 <212> DNA

<213> Mus musculus

<400> 904

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| aactgacttt | tttcttaagc | accattaact | cttnccgtn | nagggttntn | ctgnantnca | 60 |
| gagccatgca | gaatgtgcta | agcggcaaag | cctganngtc | tccantgagt | gactgttnnag | 120 |
| cgagagcagg | atganccctgc | tgcantcagg | angnangtgg | ccnnttgctt | ctgccatact | 180 |
| gatccggact | tcctcctgtg | tttgtacggc | aaaatatcca | agcca | | 225 |

<210> 905

<211> 133

<212> DNA

<213> Mus musculus

<400> 905

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agtgtgtggt | ttcctggaac | ttgctgtgta | aaccaggctc | tcctggaact | caggagattt | 60 |
| acctgtcct | acaggcatgc | accaacatac | attgatgtat | tttatttaca | taaagtttta | 120 |
| catatttaca | aaa | | | | | 133 |

<210> 906

<211> 177

<212> DNA

<213> Mus musculus

<400> 906

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actgagatga | gagactgagg | agcaggctgt | gggatctca | gccatagtcg | ttggcttcat | 60 |
| ggttccagca | ggatgggtct | tagcccactt | ggagagctat | aaaaagagct | ccgcagcatg | 120 |
| aagttgcaca | tccttgagag | atttcattaa | acatgtccat | ctgcctaaaa | aaaaaaa | 177 |

<210> 907

<211> 200

<212> DNA

<213> Mus musculus

<400> 907

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgaccgtcat | tgtcaacatn | aagtngatcc | tggncactcg | gagagcaatc | agcgaggcca | 60 |
| atgaagnccc | agaaccagag | caagactatg | atgaggccct | aggacgtctg | gagtcacctc | 120 |
| ggcgagagg | catcattccn | gggacggtnt | nctggatggt | ttaantanac | tccantagga | 180 |
| agcaaagtga | aaaaaaaaa | | | | | 200 |

<210> 908

<211> 301

<212> DNA

<213> Mus musculus

<400> 908

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gactgaggta | ttgcctgttg | gggtgtagtt | gttctggtag | accccaaagg | gaagagccac | 60 |
| ccagttattt | gaaaatacca | gcagttcatt | gttgtctatc | atcactggct | tctgggcaga | 120 |
| cagaacaagc | gttgggttgg | tggatattcg | ttgcacacac | ggccaaggat | gtacttaact | 180 |
| gtaaggacat | accgagaaga | ttgtgaagat | atgagctgtc | attctttggc | catggatgct | 240 |
| tacggtttac | cccctctcag | attataaaga | gacaaataaa | ccccttggaa | gcaaaaaaaaa | 300 |
| a | | | | | | 301 |

<210> 909

<211> 108

<212> DNA

<213> Mus musculus

<400> 909

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggtaacaatg | agagtgcgat | agatccatta | ataactcatc | tgggatatnt | gtntcannct | 60 |
| tcaagtgtac | cacagcgtgg | aaacatggtc | tggtaacacc | actgcttt | | 108 |

<210> 910
 <211> 262
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 910 | | | | | | |
| ttgctcagta | gctggagtna | cagtcngnng | ngagctgcac | aacatgagtg | ctggagaacg | 60 |
| aaactttcag | tcntntgnna | cagcnggnan | tactttccag | ccacangagc | tgtccctcca | 120 |
| gccctgctct | gcaagcgtng | tttttcacgg | ttcaccant | gctgtgtgtc | attcctgntc | 180 |
| tgggcgggnt | gantagtgat | nccattgcat | ggatacatac | cacgttattt | atttatcanc | 240 |
| ntattcatgt | tatcaatttg | at | | | | 262 |

<210> 911
 <211> 121
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 911 | | | | | | |
| ttagactgag | tgctgattat | anacctanca | acattaagac | agaagatntc | nggaagggac | 60 |
| angaaangaa | aatcagaaga | ggaagaggat | ggtaaaactta | aanngcccaa | gaatttgatc | 120 |
| a | | | | | | 121 |

<210> 912
 <211> 225
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 912 | | | | | | |
| cctaggggta | ggattccnng | cngaengaa | accccagctc | tntaggactt | ccctgggact | 60 |
| ctagcaccag | atgggactgn | ngagacagcc | agtcttctga | actgaacaac | tacngngatn | 120 |
| cttgcccttt | cantcaggag | acagccactg | ttgggctgct | ataaccacag | cctntangcc | 180 |
| actctaataa | atccnatata | tgtatattca | ttgtaaaaaa | aaaaa | | 225 |

<210> 913
 <211> 172
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 913 | | | | | | |
| attgaacgcg | ttttgggaaa | accccttgca | angggccccc | gggacanncg | agaggncgna | 60 |
| cccgcaaaaa | gctngaagag | gancggacac | ccttacnng | ggagatggtn | gcgngntcc | 120 |
| cataccataa | accacctgcc | cattacaagc | ctccagcaac | acgggcgagc | ga | 172 |

<210> 914
 <211> 256
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 914 | | | | | | |
| atgaggagta | tggctgtccc | attctacatg | aggatagggt | tgtcgatgag | ttanagcatc | 60 |
| aaatgcagga | nggcngngng | attgaggatt | accacgggct | ganacttgct | tccccggcgc | 120 |
| tgattcatat | agcggttgtn | nnncaaaca | atcnggtgcn | ttgtatacnc | canntctncn | 180 |
| gaggggtnat | aaggaaaaca | agctnctgcg | accatnntct | gacgtnaggg | cttcttccct | 240 |
| aatgtatgga | ggagaa | | | | | 256 |

<210> 915
 <211> 216
 <212> DNA
 <213> Mus musculus

<400> 915
 gggaatttct caattttgct nagaggacat tgnacatgga nanatnggag gagaactaca 60
 acaatcnatt attngtgatn cttatcacgt naatgggaca aatgatttat tggtttcaen 120
 gttncangat antgactgac tatgantccc ttatgctctg caacatctcc ttcctcattg 180
 ccctgtaaat aaagctgagt atttttaaaaa aaaaaa 216

<210> 916
 <211> 216
 <212> DNA
 <213> Mus musculus

<400> 916
 tgcactatat tgttggtganc ggttcagcca ccaacactac caatgggnacc natgggaatt 60
 tggngccgggt ancgacnnc anaaggacna gtgtttcgng cngcntcna tagcngcaga 120
 agggcacctt gncggtctac cactgnggat tccatccatc ncagcgcacc tottaaactg 180
 ctgcctagga cagantaata cttgacaata aaagct 216

<210> 917
 <211> 227
 <212> DNA
 <213> Mus musculus

<400> 917
 tccagactgg atggagagac tgacagttta acacttggcc aaggccatat acctggtaag 60
 nggnanagct gctctgngng antccaaagc cctcactttt tgnatntttt tanaantgan 120
 atatgaattt tttcatacaa ggaaaaggan gaataaanct gtggggggcat gagcnncc 180
 tgggcngagn ttgctaata ttnaaccac catgatgaaa aaaaaa 227

<210> 918
 <211> 374
 <212> DNA
 <213> Mus musculus

<400> 918
 actgaggtcc cgggggtttg ggaggatcag tgcattatgc ccaatggcta ggtctgcagt 60
 gagacctgc agccttaact taaatcggtc tgaagcctt agcaacagta accagatat 120
 atctgggact cccacatcac cagatgatga agttcgggtc atcattggca gtaaggtaaa 180
 ccgaggacat gctatccact tatgagagtt attgaagtat ttgatttatt ctttaatttta 240
 agatgtattt aagttcaaag taagtatgaa tttttttatt ttacttgagt tagaaaaaag 300
 caaaatattc ctattttgtc agtaaatacc ttacacattt ctattaaata tgtttgctgt 360
 taiaaaaaag cctt 374

<210> 919
 <211> 228
 <212> DNA
 <213> Mus musculus

<400> 919
 gaactgaggg tagaattgac tggacatctg cctgtgaaga atagagatgc tcagaagcat 60
 gacgagaggc tctcagcaaa catggtctac tcaccgaaaa agcttgacaga tgctgcgatt 120
 actgctagga gagtctccat gtaccttttg gtacttcttg atgctccagt gaaagaccac 180
 ggatgggaat ttcccatgac ccctctctta ggaacaaaac aaagactg 228

<210> 920
 <211> 123
 <212> DNA
 <213> Mus musculus

<400> 920
 gcctgtcgtc agatgccgcg nnagcggaaa ccgancctctg cctagnggag agtcctccgt 60
 catcgngtga cnagcaaacg anaacgaaa ggactggncn tgcnccccgg ggtcgtcaaa 120
 aca 123

<210> 921
 <211> 366
 <212> DNA
 <213> Mus musculus

<400> 921
 agtcttgcta tgcagatctg gccccccngc gtgataattc tctgtcttct gcctcccgag 60
 ctggnatgcc aggcctgtnc caacacaccc agcttttctg tgagtccatc acagttagca 120
 agaccgaaag caggcagctt ctctttgttt gcggttgaa tgcttaacgg ccgctggaag 180
 tgagtggcca gtggattgtg caaagccgat acagagatac agagcacgcc ctccacctg 240
 gcgttccggc cagagagctc tccagacagc acccgtccca gaatgcgctt gcgcaaaacc 300
 agggatgttt gtccggtttg atcattgctg tgtggcagtg tccaagtga gcaactgcaa 360
 taaaaa 366

<210> 922
 <211> 107
 <212> DNA
 <213> Mus musculus

<400> 922
 gactgaggtg gcatccacta gactgaggga gacatccagg taacnccngc cagtggagag 60
 agttcactta ccgaataaaa ctcaagtga ccccgagaaa aaaaaaa 107

<210> 923
 <211> 329
 <212> DNA
 <213> Mus musculus

<400> 923
 tcagagagga cagatgctac ggtgaacccc cgctcattct ttctaaggaa tcccagtgaa 60
 aatacatttg aactgggtccc cctgggggat gaggaggagg aggagaaaaa tgaaagcgtc 120
 ctgctggagg gtaggcagc ctacttaaat ataagccttc ctctcacac gccgcctcct 180
 cctttnatct ccgaggacgc ctncggatat ctgaccagcc cctggctgac gctcttnatg 240
 cctccgtgt acacgattgt gttcattgtc agccttctc tgaacgtcct ggccatngca 300
 agtgttcgtc ttgaggatga aagtcaaga 329

<210> 924
 <211> 204
 <212> DNA
 <213> Mus musculus

<400> 924
 ctgaggtttc agtgtttagag agcatcgggg cggagcttgc tgacgattcc cactgcctct 60
 gccagccacc tagctgntcc ggagctatca cgtgggtcacc tgcaacctta ctccaagatg 120
 atttggccgg aaagggcccc ttcccctgct tcctaaccga gngtcagaaa tagtaaaatc 180
 gaaccttgat ctgaaaaaaa aaaa 204

<210> 925

<211> 120
 <212> DNA
 <213> Mus musculus

<400> 925
 gaactgagat agccagtccc aagaaaaaac aaccacattg tcagactcct tcctcagcag 60
 agtgagacgt ccacgttggc gagccgtgag atgccaggac ttggaagggt atccccctgtg 120

<210> 926
 <211> 401
 <212> DNA
 <213> Mus musculus

<400> 926
 gactgagctc tctggcacag ctggctattc tcatctcaga agaaaggaga agagactttc 60
 tgaagatctg gtagagaaga tagaagaaat ttggaataca accaaaaggt acagcaaggg 120
 acatttaatt ttgcatgttt atgaattgtg acacttgtgc aaatgtgtgt atggtttgtt 180
 cccaaactgt cgccgtagca acagggtcttg gcaactggagg ctgggtccagc ctactgcttc 240
 tttccactcc tgcacccacc ctgcttcagg ggtccctgag cctgtggtca tttctgcctt 300
 ggggggtcca gctcctaact tgggagcaca cgcgacgca catacacaca cgtacacaga 360
 ctctgtttctc atccaacagc agatccacag ccttcgtaag a 401

<210> 927
 <211> 407
 <212> DNA
 <213> Mus musculus

<400> 927
 gactgagaac cagcagagcc cgtggcggac agacagagac atggggtttga tgaatgcaat 60
 tgggctgcag cctcggaacc caaccacctc tgtgacatct cagggcaccc agactctggc 120
 cctccagttg cagaacgctg aaacacagac tgagaggagg gaagaggaaac caggggcagc 180
 atcttcaggt cctggtgaag gcgagggtc agaatatggt ggcagtgggg aagatgcctt 240
 cagcaggatc cagaggctga tggccgaggg tggcatgaca gctgnggtac aacgggaaca 300
 gagcaccacc atggcctcca tgggtggctt tggcaacaac atcatcgta gccaccgcat 360
 tcaccgcagc tcccaaacag gcacagagtc aggggctgct cgtacct 407

<210> 928
 <211> 285
 <212> DNA
 <213> Mus musculus

<400> 928
 tccaggaggg tgggtccanct ggcaagcact gcagctctan atattanaga tgcgngtgtc 60
 tcacgtctcta gtctttctaca caanttaact ctgtgnggca ttgtcctagc tggaaagcct 120
 ttttcttttg ttctctgccc taagcagggg tacctctgga gccagagggt cataangttn 180
 ttctggaaaag gatctagatg aacngagggt ntttancang gggctggaan cnttggnttt 240
 nataaaaaant tgcctttngt ttnaaagaag gcttggtttc aaagg 285

<210> 929
 <211> 369
 <212> DNA
 <213> Mus musculus

<400> 929
 accactgtat aaatgggaag cagcttttoga ggctacagcg gaatgtgatt ctcttcgtct 60
 tgggctttct gattctctgt ggattcctgt actctcttca tacggctgac cagtggaaaag 120
 ctctgagtg cagacctgca gaagtagaga agatgaagca agaagtcctg cctgtcttac 180
 cagcgcctta gaaggaaaag gctgaacaag aagggtttgc agacatactc tctcagaagc 240

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcaaaggca | ttttcggngg | ggccctcccc | atctgcagat | taagaccccc | caacacagtc | 300 |
| tccaaggatg | ggatgcagga | tgatgctaag | gagaagagaa | ncagccctgg | ggaaggctca | 360 |
| gcaagggaaa | | | | | | 369 |

<210> 930
 <211> 416
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 930 | | | | | | |
| gactgagtca | aggtgaagag | aatgggattg | actgcagcca | aggagacaag | cctgcgggagc | 60 |
| ggggcaagcg | ggcccagagg | agaggatttg | gacgtggcag | gggcagaggg | acaggaaggt | 120 |
| tctccgctca | aagcatgggg | acattcaatc | ctgcagacta | ttcagagtcc | atgtctacag | 180 |
| atggctgttg | gacaaagttg | gcagttttgg | aagctgctca | naatggtaca | gatgagggac | 240 |
| cgggattgtg | agtgtgtaca | cacaagctgt | ggagggcaga | anactttccg | ctagtggatt | 300 |
| acaagagtgt | actcaggatc | tccggcccta | atggtttgat | caccaatcca | gnggaancaa | 360 |
| actttttattc | cttaaaacca | attacntgaa | ataaaaaatta | tcataagcat | taacct | 416 |

<210> 931
 <211> 444
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 931 | | | | | | |
| agactgagct | gccaatatg | ttcggcgacc | ttcgggtccac | atattattgcc | ttgatgattg | 60 |
| gatactacgc | ttcctcagca | gttaccttcc | caggaatcaa | gctcatctac | gacgctggcg | 120 |
| cctccttcat | tggcatccta | gtggtctggg | ctggctgctc | tggcctgggt | tttttcaact | 180 |
| gtttcttcaa | ctggccactc | gagcccttcc | caggcccaga | ggacatggac | tactcgggtga | 240 |
| agatcaagtt | cagctggcta | ggctttgacc | acaagatcac | agggaagcag | ttctacaagc | 300 |
| aggtgaccac | agtggggcgc | ccgctgagcg | tgggcagctt | tatgcggact | gccaaggagc | 360 |
| aagccgccct | gcaggagggc | cacaagccgg | ggtggccccct | gggggaccct | ggagggnaan | 420 |
| gccacctgat | gctttaacgg | gccc | | | | 444 |

<210> 932
 <211> 174
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 932 | | | | | | |
| tccaaaaggg | ctggagaact | tacnngnnga | tgagngtgga | gcagagtgat | caccatnatt | 60 |
| gcnnaaacca | cgacagttca | agatcccang | actggttcct | gaacagacag | atggatgttg | 120 |
| aaggatggga | agtacatgcc | aggtttttgg | ccaacnggtc | tagacaacag | gctg | 174 |

<210> 933
 <211> 103
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 933 | | | | | | |
| ctctacacta | gacgggagat | gctgccaaagt | gccccagacg | ggatcaagac | tccagtgcaca | 60 |
| nccataagat | tcnctaaagc | taagacactg | caaaaagaaa | aaa | | 103 |

<210> 934
 <211> 184
 <212> DNA
 <213> Mus musculus

<400> 934

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gggagagtca | tggcaagcan | gcnccttgaa | caaggacact | acagtnngaa | cncnttcnac | 60 |
| tacaancgga | agtcaaggag | aactgaaagt | gnctccnnga | accctganat | gnaaanctga | 120 |
| gaagagtgt | gcgtgcanaa | tgcttcnctg | gatgtttttt | tcctctattc | tcacagacaa | 180 |
| ctgg | | | | | | 184 |

<210> 935
 <211> 324
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 935 | | | | | | |
| tgaggatcag | accaggtctc | tttgggtctt | gtctagagat | gtccnacaaa | acctcaccaa | 60 |
| ccaagaagat | caacgggcag | aaatgacccc | accatcacccg | tactatccac | agagcaagat | 120 |
| ctccaagaag | gatacttatg | acgcaggagc | agccacccag | accacgtgag | atgccaggac | 180 |
| ttggaagggtg | ccaaccaaga | agatcancgg | gcagaaatga | ccccaccatc | accgtnttat | 240 |
| ncacaganna | agatctccaa | gaaggatact | tatgacgcag | ggacagccac | ccagaccacg | 300 |
| tgagatgcc | ggacttgga | ggtg | | | | 324 |

<210> 936
 <211> 127
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 936 | | | | | | |
| ttgaaagcct | ttggtgatna | cgccctccant | nctagacggg | agatgctgcc | aagtgccccn | 60 |
| gacgggatca | anactccaat | ggnagnnata | atattcccta | aagctaagac | actgcaaaaa | 120 |
| aaaaaga | | | | | | 127 |

<210> 937
 <211> 218
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 937 | | | | | | |
| agactgagga | ttggtggaca | naactggcag | tncctotaccn | agcagtncaa | cccccttgcc | 60 |
| agatttnagc | ttccatgtgt | gcacatttag | aaagtgatgg | acagaactca | ccagagngat | 120 |
| cctcaacctg | agacaaccaa | cagtgaagtg | tggagagoca | aactgaccca | aggcttgctt | 180 |
| agagtaaagt | taacttgggg | taaatgtaaa | aaaaaaaa | | | 218 |

<210> 938
 <211> 265
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 938 | | | | | | |
| actgagatct | accagcatg | aaggctgtgc | ttctctctct | gtgcgccttg | ggaaccgctg | 60 |
| tggcaatccc | gatgaatggg | agccggtttc | tgacagctga | atcatcanaa | accaagctct | 120 |
| atcaccttga | tcaagcagtt | cacgggaaac | annnaattta | tgacagacgc | tangaacct | 180 |
| gcctaactca | tgtggagcag | tcccgtngag | tttacacact | gtactctgaa | attataaata | 240 |
| cgggacaaa | taacataaaa | cagtt | | | | 265 |

<210> 939
 <211> 356
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| <400> 939 | | | | | | |
| agactgaggt | acctgtagga | gaccagactg | tgggaaacca | gaccttcaac | agctcccacc | 60 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| ctgagaatca | atngaccctt | tggtgggagc | caagccaccc | ctccttcaca | caaggctgat | 120 |
| cagctgatca | tgagaaccaa | ctgacccttg | tcctggccag | acacctgggg | ctggttgggt | 180 |
| ggatccagca | tccaaagata | agccacaaaa | tggttcaagc | ctgcaactcag | catctgcccc | 240 |
| agatgttggt | ccctctctct | gtgctttgat | cattccccct | cagnccctcc | ctatttcctc | 300 |
| tcactgngtg | cttataatca | ggctttcagc | ttccattaaa | gtagaccttg | acaacc | 356 |

<210> 940
 <211> 124
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 940 | | | | | | |
| ctcatccatg | atcgcatatn | atcctcacia | cagtaccaga | tagtgggggt | tattacgccc | 60 |
| aatctccana | tggtggaact | gaggttcang | ggttaggtna | ctgccctgag | atcaccaggc | 120 |
| aaaa | | | | | | 124 |

<210> 941
 <211> 249
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 941 | | | | | | |
| cctgcctggc | tcttgnnttg | aagacangga | nacttagatc | tacttanaga | aaaaggcaat | 60 |
| tctgaagatc | taccatcatc | taatcccttc | nagtcagggt | tgagggccag | cagagatgac | 120 |
| tggaacccat | gctgngggag | gagagaacca | actcctgcc | gntgntctct | gacctccaca | 180 |
| catgtgccac | agcttgtgca | agtgtgcact | cacctgaata | aatgtcattt | taaattctaa | 240 |
| aaaaaaaa | | | | | | 249 |

<210> 942
 <211> 113
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 942 | | | | | | |
| gtgttaagtt | ttgatccctt | tacgggagat | gctgccttgt | gccccagacg | ggatcaagac | 60 |
| tccaatgaca | accataagat | ttcccttagc | taagacactg | caagaaaaaa | aaa | 113 |

<210> 943
 <211> 430
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 943 | | | | | | |
| gatggctgat | gagtcaccag | tgatnagccn | ntcgtncgcg | angaccacgt | tgnggttcac | 60 |
| cggctctgaa | gactcnnat | cggncctaag | agcaaaagag | gatgatgaca | ggcgcttgct | 120 |
| ganggaacct | gactgactta | agtnctggac | tgcttactga | caatgccctg | tgtctgtcng | 180 |
| attcaatata | tttggcaaga | gggacccatt | ctctgngagt | ntggaannac | ttccaatgta | 240 |
| cccatnttnt | ntaccangan | gtccattttt | atatgaacan | nctatgaacc | cctntcaatc | 300 |
| cacattagct | taattnccaa | gantaaaaaac | agancgaggg | gtggccagat | ggctcnacca | 360 |
| gtagtngaaa | aaagtggnc | nggtnatnng | accgttcttc | atgcgnattt | ttntgtatg | 420 |
| gtggctgcat | | | | | | 430 |

<210> 944
 <211> 159
 <212> DNA
 <213> Mus musculus

<400> 944

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aattaaacct | agaagagctt | gggntcaaaa | tgatcattnac | ccgnetcgaa | cgccggcgca | 60 |
| tcaagttcag | gcaaggcggg | caccactg | catcaggtcc | gagtgttcca | ccagaacgtc | 120 |
| ttccccaa | tcacggtgtg | caacgtcgaa | aaaaaaaa | | | 159 |

<210> 945
 <211> 295
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 945 | | | | | | |
| agtgtctcac | aggagctcac | catnagcctg | gagaagctgn | aaaangacaa | gagcatncga | 60 |
| ggggtcatcc | tcacgtcgga | atgcccggt | atcttctnng | ctgggctgna | cttgctggag | 120 |
| atgtatggcc | ggancccg | ccactatgct | gagnactgga | ngaacngca | agagctgngn | 180 |
| ntgagactct | ncncgtccaa | catgatntta | gagtctgcc | tcaatggagc | ctctccannt | 240 |
| ggngggtgnc | tcttggtct | ctgctgtgac | tacagggtta | tggtcgacaa | cccca | 295 |

<210> 946
 <211> 261
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 946 | | | | | | |
| acagactcga | gtagtgtcac | tttgctccat | aaacaagaca | tgaggactat | acccagagta | 60 |
| ctctcgtgcc | ttagaagacc | ccagagaagc | agaacgttat | cttgaatggc | tccagcaaaa | 120 |
| tctgtgtggg | caactgaaat | gtaagtcggt | tggtgaatcc | tgctttcatt | agttcagaga | 180 |
| tccccataaa | ttggaaagag | aatccagtga | aattggtaaa | ctatttcaat | actttaataa | 240 |
| agccctgaat | ttatacaata | g | | | | 261 |

<210> 947
 <211> 144
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 947 | | | | | | |
| tgagggtccag | gtcaaggcct | cgtcccgcctc | acatagtaga | agcngtgaaa | gatccagtca | 60 |
| cagaagaacc | cgtagcaggt | ccaggagacag | agacagacgt | aaagtccggg | acnaagagaa | 120 |
| aagagaaaag | gagaagaaaa | aaaa | | | | 144 |

<210> 948
 <211> 115
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 948 | | | | | | |
| aaaacacctc | cagcanccaa | ccangcatct | gaccctgagg | aaaaagggaa | ncctggcagc | 60 |
| atcaagaagg | ccgaggagga | ggaagaaatt | gacattgaac | ctctaaaaaa | aaaaa | 115 |

<210> 949
 <211> 531
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 949 | | | | | | |
| ttagactgac | gataaacctg | ttggtgagag | ccatggcact | caaggctcta | cctctacaca | 60 |
| ggacggtgct | cttcgctgcc | attctcttcc | tactccacct | ggcatgtaaa | gtgagttgcg | 120 |
| aaaccggaga | ttgcaggcag | caggaattca | aggatcgatc | tggaactgt | gtcctctgca | 180 |
| aacagtgcgg | acctggcatg | gagttgtcca | aggaatgtgg | cttcggctat | ggggaggatg | 240 |
| cacagtgtgt | gccctgcagg | ccgcaccggt | tcaaggaaga | ctgggggttc | cagaagtgtg | 300 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agccatgtgc | ggactgtgcg | ctggtgaacc | gctttcagag | ggccaactgc | tcacacacca | 360 |
| atggatgctg | tcttgcgggg | actgcctgcc | aggattttac | cgaagacca | aannntnggt | 420 |
| tgttttcaag | acaatggagt | ggtgcccttg | cggagaccca | ccttcttccc | taagaaacca | 480 |
| caatttggga | atgtggtgcc | aaggnggcag | canacctttt | aaaaaaaaa | a | 531 |

<210> 950
 <211> 241
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 950 | | | | | | |
| cgtgtgaaga | gctatggnga | cagaagccca | gcacaaactg | ttaagcncca | gaaggggaagg | 60 |
| ctnatcgcca | tccggggcgt | gtctgctcnc | accgaggaac | ggctgcagnt | cagttcctaa | 120 |
| gcactaagca | tcntatgagc | atcttagcag | ttttacttca | cattctcaca | tttgttttga | 180 |
| aaaataactg | ttcaaattat | aactgcagcc | atttcagaaa | gtggaaaatg | ataaatatta | 240 |
| a | | | | | | 241 |

<210> 951
 <211> 384
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 951 | | | | | | |
| gaactgaggc | tggactgggg | natcatgggtg | gantgtnttc | nggccttgac | attgaatagc | 60 |
| tactatnttc | ataggccatc | agcatttgtg | aagaaangtn | ttngnncaact | caagaggacg | 120 |
| tggnagagca | aanggatgca | caggaatntt | cngagactgn | attttcataa | gcanaaaatn | 180 |
| attntanccn | gannacctat | gcacgccctt | ntgnggggnc | tgntgnttgc | tcttctgngg | 240 |
| gctggaanat | cccttctcct | ggnactgttc | tcacttctta | gatttatatg | tgacttgtgt | 300 |
| tgcatataag | nnttactgaa | ctgngccnng | ganggnnaca | ggtatcagna | ctaccaacaa | 360 |
| ccaacgggaa | ctgctgctgc | tgga | | | | 384 |

<210> 952
 <211> 232
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 952 | | | | | | |
| caggcattgg | aggctccaag | ggcccttgta | aagacatgtc | cattgcgaag | tgaccagaag | 60 |
| agctaccccg | aggactaatc | gctaatagctt | gggatagaag | aggaagacct | aagcatgcag | 120 |
| acctcccttg | ctttctgcct | ttctgtcaca | gtgtgttcat | catactcaag | ggccagcaag | 180 |
| atgatccagc | gggtgtaaga | gggtttcaac | cgtgtgcacc | ttcccccccc | cc | 232 |

<210> 953
 <211> 136
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 953 | | | | | | |
| cactgagctc | aagactgagt | ntgcncaaata | cttantaaaa | gccantonta | gtacagcttg | 60 |
| gngatacaac | ccctaaaaaac | agcacaccca | ccatgttttaa | cctcatgaag | aaagataagg | 120 |
| acaaagatgg | cgggcg | | | | | 136 |

<210> 954
 <211> 409
 <212> DNA
 <213> Mus musculus

<400> 954

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgagagttgt | acccggcgtg | gctggccaga | ctgtcaaaga | cgtaacgcaa | agagtcctcc | 60 |
| tctaattttt | ttctgccggg | aatcttgga | cccttgtag | acaaaggcng | cctgtgtgac | 120 |
| tcctctgtcc | aatagacact | tctgcgactc | ctcagggcag | ccggtcgtcc | ccgagccaag | 180 |
| gacaaagact | cgcagcgcg | ccaanggatt | tatagcgacg | tccccaagct | gccgagcttg | 240 |
| tcacccaong | agcctgacag | aaatgcggaa | tggatctgtt | ttaacagaga | agaaaaagca | 300 |
| ggccagtttt | tcgttaaccc | ccccgaaccg | gannaagatc | cgaaagttna | agcattgttg | 360 |
| gggaaaactg | gttccccggg | cncctgnntt | cgtgaatgaa | ataaaaaaac | | 409 |

<210> 955
 <211> 398
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 955 | | | | | | |
| actggggcca | agagggagcc | agattnctg | acacggagac | atctgtccag | ccaccaaag | 60 |
| aaggtacaaa | atatcacagc | acctgctgga | attccaactc | atgaccttcg | ggagaacagt | 120 |
| ttgtgtcctt | gacgctaagc | tacctgttct | cagnttttac | atttgacctt | tgggcatcat | 180 |
| ggtgccctga | ggggacaaga | acaggatagg | gaatctgcgc | atgctcactc | gccggaggcg | 240 |
| ggtttaanne | gtgtgncaag | tatttttctt | tttggaaaga | atgaagattt | tacttaaact | 300 |
| ttataagaga | tgagaaatna | aaccacggtt | tttctgggga | gcacgaacgt | gccccgcggt | 360 |
| ccctggcaaa | cttcttcccg | gttcttgccg | caaaatgg | | | 398 |

<210> 956
 <211> 660
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 956 | | | | | | |
| actgggagaac | agcagcagag | aaaagaaaaag | acagagccaa | aggccttctg | agtcaagcaa | 60 |
| agaacggaat | gcaccccgca | aagaagaccg | cagcgccagc | agcggggcag | anggtgacgt | 120 |
| gtctttctgag | cgggagccat | agatgcggtat | gcaggagctc | agcaaattac | cattggggcag | 180 |
| aattggatcc | tgaaaaatca | agatgctaaa | gcccctacac | tgttttaaga | atttgggaact | 240 |
| caaatatgaa | aagaaaatca | gaaataagac | cctgggaacc | tgaatatccc | tgcagaaaaa | 300 |
| caccaaagga | ccattttcatt | ttgtgtattg | ctgtggctctg | attgggggtaa | tgggtgctgt | 360 |
| gggatgggag | antgcttgtg | ggttcacacc | catgctctcc | ccatggagaa | ggggccattg | 420 |
| gttttcttgc | tttctaccat | gtcttggctt | gcttttggaa | caggctggcc | tancatcatc | 480 |
| tgtcctcatc | tgtggtgtac | tgtgagtctg | tgatccatct | ccagcacatg | cctgctgtcc | 540 |
| actatttcca | tcattgaatc | acaagacagg | gctggtgtta | gacaaccaat | aataacatat | 600 |
| tgtttgaaac | tttggcatct | tgggtacattt | tcctcttctc | ttcctaataaa | ataaattaat | 660 |

<210> 957
 <211> 211
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 957 | | | | | | |
| actgaccgtt | ggaaggagag | ttggggntct | tcncagatgt | gnaccctgaa | aggctaccog | 60 |
| tgctcctgtc | accagagcac | aggaaattgg | gaggagaatg | tggngcaggg | gatagaggag | 120 |
| ttggaatana | gaaaggagaa | aatgaagacg | ngaccttggt | ccaataagac | ttcattttaca | 180 |
| aattaaaact | gnntgaccca | tgataaaaaa | a | | | 211 |

<210> 958
 <211> 296
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|----|
| <400> 958 | | | | | | |
| cactgagtgc | atactgggtg | tgggtgctgaa | ccccgggagt | cctgaactaa | acagaatata | 60 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| cactgccctt | caaagcctgg | aggtccaggg | gaggagagat | agccnancct | nmanaaggcc | 120 |
| cannanntgg | nggtgacgaa | gttgattngg | aggcnaancn | tgcctctgac | actctgctca | 180 |
| tatgnccctcc | tgccgnattc | ccaagtcnnt | ctntatccnt | atgcgggnaa | gagagatccc | 240 |
| cgtccgatga | ctcctngtgt | nccatggngg | ggacactgcc | caatgagagg | gtccag | 296 |

<210> 959
 <211> 222
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 959 | | | | | | |
| ttcgaacata | tcctttcaag | caccantatg | attctggatt | atntngcnnc | tgtactttna | 60 |
| aagtggcggg | ancagagggt | ngaaattaaa | gcnttattaa | gtacattgaa | ccttgganan | 120 |
| gcctgnacna | cctgngaggc | cactccttga | aannctgtnc | cantgnccct | gtcccaccgc | 180 |
| caaaaaaata | caccacaat | aaaaacctga | acaaaaaaa | aa | | 222 |

<210> 960
 <211> 248
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 960 | | | | | | |
| ctctttctgg | cgcagngtt | gnccgcgttg | gtgaccggga | gagagtctgg | agcggttttg | 60 |
| gagaggtttg | gcggcatcan | cnagcnnccc | tgaccctccc | actggatcca | caaaccagct | 120 |
| gctaccacag | ggaggtgatc | gngctcaggg | ggtccaggac | ttggaaggga | cagatctgaa | 180 |
| ccttttcaaa | gttgctttct | cctccaagcc | acaaggcctg | gccaccccaa | gcaaagaaag | 240 |
| gaatggga | | | | | | 248 |

<210> 961
 <211> 208
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 961 | | | | | | |
| ctgaggctaa | aatgaaatgg | tggtttctaag | tcctcgactc | tgagagaagg | agaatggaag | 60 |
| tcaacaactg | cccatcaagg | gttgattccc | cacagagggg | aatgggatgg | ccaagtctca | 120 |
| cctgcatgta | cccaagaatc | tgtggcacac | ggtaaagaga | gctgccattt | ctctgccacg | 180 |
| agaagcagtg | acaatggaaa | aaaaaaaa | | | | 208 |

<210> 962
 <211> 121
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 962 | | | | | | |
| aaagaagagt | gtgaaacaag | aagcaaagat | cgggttggaa | gagggcaaag | aggaaagggg | 60 |
| gggatggaag | gaaaccntgc | agccaccaac | acaataaact | gtatcctgac | caaaaaaaaa | 120 |
| a | | | | | | 121 |

<210> 963
 <211> 155
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 963 | | | | | | |
| ctgaggcgga | gtcaggatcg | agtgtctgtc | nccccaccgc | cttcacccca | acttcgantt | 60 |
| tggccaccaa | ctgnanacac | ctnaaccccg | gtatctggct | gagggcactg | actgggatct | 120 |
| cantgtggac | gccggcctga | gtcctgcctt | ctgtg | | | 155 |

<210> 964
 <211> 150
 <212> DNA
 <213> Mus musculus

<400> 964
 aatgtttacc cttgcggaag ttgcttactt aatgacattc agccaactta ccgaatcctg 60
 aagccatggg gggacgtgtt tatggattac ctggnagtgc ttatgctgat ggtagccatc 120
 tttgcaggga ccatgcaact taccaaagat 150

<210> 965
 <211> 304
 <212> DNA
 <213> Mus musculus

<400> 965
 tgccggaacc gaacgnngcn cctctcgan agnagnaagn gctcanctgg tgnntnatct 60
 ctncanccga canaggcttn tccctgctgn tncgtttaga nacccgtaac tgctcaacat 120
 gcacacagta agctaccatg gaggacctcc ctgcccctgt gtggtcacca ggagcagagg 180
 acctgccata tcctttctcag tcttgggagt ggctgctggg acagtgggtc ccatcccacc 240
 tggcttggtt cacttggcct ctgaaactcc aattttctaa agaccaaacc caacaaaaca 300
 caaa 304

<210> 966
 <211> 107
 <212> DNA
 <213> Mus musculus

<400> 966
 tccaggagcg taatgtccag gtgttctca tctctggtgg ctttcggagc atttgtggac 60
 accgtgctgc aaagcttcaa tatccccaac aaccaatgt gtttgc 107

<210> 967
 <211> 238
 <212> DNA
 <213> Mus musculus

<400> 967
 cgaacctctc tggatacatc gtcaccggta aaccagagg tgggcctcct aggcccaa 60
 ccagtcaact ggacaatgaa gatcaccat caccatata tttggactta ttccgactat 120
 tctgtgttg tcttttgac tactttcttg gtttatttct ttattgattt gtctgtctca 180
 ttgaatcctt ttctctgagt tttgtgttgt attacaagt ctgtgccaaa aaaaaaaa 238

<210> 968
 <211> 184
 <212> DNA
 <213> Mus musculus

<400> 968
 ctaagtaatg gtcaagactg aggggacgtg gaacacctgc aaaaactgga tttttgcct 60
 atcacgactc tgaggtaga tccggcaact gaagtgtcct ctttccaata gaatgcctgg 120
 cctctccac caacttcacg gttagcggg aatgaaattt ggctaacaag tcaaaagaaa 180
 aaaa 184

<210> 969
 <211> 144
 <212> DNA
 <213> Mus musculus

<400> 969
gatctgctct tggaagagtc gaatgttcaa gccagtgtca acgccagtaa cagtgtgtgg 60
tgacatacac ggacaggtaa atttcacaac gaagttttag gacttgttct atcagtgatc 120
cacttgcttc caacttgtgc tgca 144

<210> 970
<211> 325
<212> DNA
<213> Mus musculus

<400> 970
ttaccttgaa cattggncat taatgctcnt tgtgactcat ctcaaaagaa gaactttttg 60
cgcaggtcng actcttctcc agccagaggg aagaatagca tctcccgagc atoctgcttt 120
gtgttctgct gcctttgaag tcagtgggtt ggcttttcat cantggaagt gaggaaggag 180
gaattcatcc catcacatca ncacacttta gtgaagcctt tctgaaaacc tgtctttctc 240
cactggtaga cttggattgg gagaagattg ctttcaacgg gtctgccttt ggaaatcatc 300
gtcttctccc taacctgaga aagca 325

<210> 971
<211> 154
<212> DNA
<213> Mus musculus

<400> 971
acagcatgac ctgcgctcct ccatnatagg ttatataccn agagctcact tctactacct 60
gaaanctgan tttggtctca aaatctcaga tgttgccctca ctgattaaag caatcagtgg 120
cctgaagggtc actgcggtgc gtgaaaaaaaa aaaa 154

<210> 972
<211> 256
<212> DNA
<213> Mus musculus

<400> 972
agactgattc cccagctttt cggctgacct gagcaganag agaggaagggn cgtcagcctt 60
cacagccatg gccatcagca tcagcaaacac catccatcct actgccatca cttcaagatc 120
tcattcaacc ccaggggagc tctgagggaa tcaaggccct gctctccaga tggaaaaatc 180
cgggatttca agggactcag gctgggtggg ttagtgacgt catagataaa ccagcactag 240
accatgaaaa aaaaaa 256

<210> 973
<211> 130
<212> DNA
<213> Mus musculus

<400> 973
gactgaggtg ggcaccctgc agattcctgg cttgnttgta ctctnctcgg accgacgcga 60
ccggagaaaag agaaccctgc agtgcanctg nntngatact gaatatcgat acgcgacatt 120
ttgaaatata 130

<210> 974
<211> 356
<212> DNA
<213> Mus musculus

<400> 974
caactgagac tgaccagcac agagaaaagta gctacctacg acagaaaacc tttccggaag 60
aagttaacta agatcggccc gcctgtctccg gagacctcat tcgttccgct gagttccaaa 120

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| ccccggaggaa | gccccaaagtc | aggacngcca | cggnacacaca | caagaaaccc | accaattcca | 180 |
| tgccggntaa | gtggcactgc | gcctgcgcac | gaaggcaggc | tgnggggtgga | ctcgggctcc | 240 |
| ctgcccggaaa | acggaaccgg | ctgaaactgc | gttccgtggg | tcanaagtgcg | gcggcggtcg | 300 |
| gagaccaaga | ttcgtggtct | agcngggaaa | cttnacacca | tactgccccg | tctcct | 356 |

<210> 975

<211> 164

<212> DNA

<213> Mus musculus

<400> 975

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atctatgagg | catgactcat | gtctcaatca | natctgctta | ccccagttc | tccatggaat | 60 |
| tagatggcgc | tgtcactacg | attaagcctg | nncctnnnat | ttgnaatgat | cactatgctt | 120 |
| naagatntcc | atgtcaacaa | gatctccatg | tcaagatcca | agtc | | 164 |

<210> 976

<211> 166

<212> DNA

<213> Mus musculus

<400> 976

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gactgagaga | atggcattcc | ctgtggattt | gctggataac | tgcaacgatg | atattttgcct | 60 |
| ttcaagcttc | attcaatncc | actccagcca | tactgtaact | actttatggt | aacaaaatga | 120 |
| gctctctttt | gcagacttag | ggaaatgatt | aggaaaataa | aaacaa | | 166 |

<210> 977

<211> 426

<212> DNA

<213> Mus musculus

<400> 977

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| agaactgagg | ttatgagana | gaacagatga | tgtttnagag | aaaanccctcg | ctgggcagan | 60 |
| tcaggagggn | agtgagaacc | atcttcatca | accaagcctc | agctgacaaa | attctgcaac | 120 |
| aaccacgtca | gtactgcaaa | atacaaccgn | gatecacattc | cttccgaggg | tcctctattc | 180 |
| tcagttccca | aagagcggct | aattcgntct | ttctctttat | tgccctgctc | cagcaaattc | 240 |
| ctgatgtgtc | gcccgaaccg | gtcgttacac | aacactgggt | cctctcttat | ttatttttag | 300 |
| ctgnggctgc | tnttaaagaa | gataantaga | agatattnaa | cgacacaagg | ctgataatgc | 360 |
| tgtgaacaag | aaacagaccc | caggttttga | gaaatggggc | ctgggggaaat | tggtcactgg | 420 |
| ggaaaa | | | | | | 426 |

<210> 978

<211> 292

<212> DNA

<213> Mus musculus

<400> 978

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| tcgggtacaac | agaactgcnc | gctaagctgc | cgacgcttac | gctcctgttc | cgaggtgtct | 60 |
| caagaactga | gccgacggga | cgggacggga | cgggacctcc | acagccaaga | ctcactggcc | 120 |
| tcacagaagg | totactgaca | ttgacttcat | tggtacgacc | tcactactaa | caaacactat | 180 |
| tgtccttgaa | attaaaatca | gcgtcagcag | ctctgatctn | cgtttttcana | canaagagaa | 240 |
| atctgttttt | cagttaaaat | ttgtncaaaa | gtcacaccct | gaagttttct | tt | 292 |

<210> 979

<211> 293

<212> DNA

<213> Mus musculus

<400> 979

| | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| acttgatatgt | aaagtctccc | ctcacgtggc | cggttcttga | gaaaagccca | taacgtttctt | 60 |
| gtgtactgtg | taacttgatg | gtacgtgttt | gttagctccg | aggcaccact | tgttcaattg | 120 |
| cactgcccta | agtttttggtc | cacatgggtt | gctaaaagta | atgagatgct | atataggagc | 180 |
| actaagtgtg | tttcctgtgg | cccactgcat | tatgggtcag | gatccctctc | gggggaaatg | 240 |
| ttctgcaagg | caatgttaat | gntggcatga | atggaaaaca | ggattttacgt | gtc | 293 |

<210> 980
 <211> 400
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 980 | | | | | | |
| actgaggtgg | tggacccaga | ntgagtatat | tcccaataca | tctcgggagg | ccagaatgaa | 60 |
| gcaggggtccc | aagaaatcca | agatagtctt | cagaggaatc | gggcctccaa | gcgggtgcca | 120 |
| aaggaaaaag | gaggagagt | gtgtccttga | aattctaact | tcacctaaag | agtccacatt | 180 |
| tgcagcctgg | gcaaggattg | ccatgagagc | agctcagtca | atgtctaaga | atcgatgtcc | 240 |
| tcttcctgtc | aatgtggagg | cctttctgcc | acaagccact | ggatccagat | ggtgtgttgt | 300 |
| ccatggcagg | cagctccctg | cagataagaa | aggttgggtt | cgcttgcaat | ttcttgctgg | 360 |
| acagacctgg | gttccagaca | ctccccaaag | gatgaatttt | | | 400 |

<210> 981
 <211> 395
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 981 | | | | | | |
| acactgagac | aacataatgc | tgntggatac | tcggctnnac | cctnatgctt | acnccctngtg | 60 |
| aananatggn | ttctgctacc | tggatcccaa | acccagtgc | ncanaggcaa | gaactgtttgc | 120 |
| cacttgctga | ancaagatgg | aantatttgt | ggacatggct | gagcttcgac | tctnaacttna | 180 |
| gtgaccgcgc | cttcgctgct | gttgaaggag | cactgggaag | tactcaaggg | agtagtgaag | 240 |
| gctagacttc | ctaagtaaaa | caagctgaaa | acgacaacta | cctgccatct | aagaagaaag | 300 |
| cctgctggcc | ctcactcttg | actcagctcc | tgtttccagt | cagcatggag | ggatcnaggt | 360 |
| gggaggtggg | gtgatgggtg | ctgctctgtt | ctaaa | | | 395 |

<210> 982
 <211> 118
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 982 | | | | | | |
| tccagggatc | cagcaccatc | ttctggcctc | cacagggcacc | gggcacacac | gggtacacat | 60 |
| gacattctta | caaccggaat | accatacat | gtaaaataca | atttctaaaa | ttaaagat | 118 |

<210> 983
 <211> 260
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 983 | | | | | | |
| ctgagaaaagc | ggtggagaaa | gaactggatg | ctctttttgga | acagcagaa | accattgaaa | 60 |
| gtaagatggt | cactctccac | aggatggggg | gagtatgtac | cacagcaaaa | gttgtacatt | 120 |
| ccagtaggac | cacaggataa | agttagtttt | cctagcccca | tagtccagtc | tcttggaag | 180 |
| ctaaggtggg | aagcttgctg | caaagttcga | ggccagcctt | ggttatagag | caaggnactg | 240 |
| tcacaagaaa | ggaaaaaaaa | | | | | 260 |

<210> 984
 <211> 326
 <212> DNA

<213> Mus musculus

<400> 984

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| actgagcctt | tgaccttcag | ttctgngttn | ggccaggtat | tnnnntgtct | ctganngtgn | 60 |
| cccaccanag | aanagagntn | nntaacnnnt | gccttcctga | ngtataaaan | gnnccaaaag | 120 |
| ctggattttg | ggcaaggggn | cctntgggac | ctaaaacaca | ttgtaggcat | cctgtgcagc | 180 |
| tacagccagc | aggggctgga | acctgtagca | cctgagtaag | gcaaattggac | aacggaggag | 240 |
| ccgcagcagg | tcacaccagg | aaccgacgag | gtctgtttga | attccccctg | ggaaataaaa | 300 |
| catccagtca | acttcaaaaa | aaaaaa | | | | 326 |

<210> 985

<211> 387

<212> DNA

<213> Mus musculus

<400> 985

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| attgcggtct | atgacaaacn | cgtacctaaa | gnaaagtgat | gacaatgatg | cangacctat | 60 |
| atgatcngcn | tggacgantg | ccngggnaat | cittgatgca | ntttcttaaa | nggtnacacn | 120 |
| ttntcntttg | gcttcgatga | ggctgagctt | ctggcgaagc | ttgaggaatt | ggagcaggan | 180 |
| gaattaaata | agaagatgac | aagcctggag | cttccaaatg | tgccgtcctn | gtncctccca | 240 |
| gcacagccca | gtaggaaagc | cagcatgccc | tcctccgtgc | accggtctng | aacangcatc | 300 |
| ttccaggagg | gcacaggaag | atgatgactn | canacaacta | gcacttgggc | cctttaaaag | 360 |
| ctacantggg | aaacacttga | cacctaa | | | | 387 |

<210> 986

<211> 542

<212> DNA

<213> Mus musculus

<400> 986

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| tgagataaac | gtgtagcata | ctggccgctg | atgcagtcct | catggccaac | gataagcata | 60 |
| agcacgctct | atctcctgtt | cgtgtggctg | gggccaaagt | ggatgaaaga | ccgcgagccg | 120 |
| ttccaaatgc | gcttagtact | cataatctat | aattttggca | tggttttgct | taaccttttc | 180 |
| atcttcagag | agctattcat | gggatcatac | aacgcaggat | acagctatat | ttgccagtca | 240 |
| gtggattatt | ctaattgatgt | taatgaagtc | aggatagctg | gcgcctctgt | gtggtatatt | 300 |
| gtatcgaaag | gcgttgagta | tttggacaca | gtgtttttta | tcctgaggaa | gaaaaacaac | 360 |
| caagtctcct | tccttcacgt | gtaccaccac | tgaccatgt | tcactctgtg | gtggattgga | 420 |
| atcaagtggg | tggctggagg | ccaagcgttt | ttccggggcc | cagatgaact | ctttcatcca | 480 |
| tgtgatcatg | tactcctact | atgggctgac | tgcgttcocg | nccctggatc | caaaaatatc | 540 |
| tt | | | | | | 542 |

<210> 987

<211> 293

<212> DNA

<213> Mus musculus

<400> 987

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-----|
| attggtacga | ctccatngag | aatgcaagac | cctnnccctg | cngtgcagtt | ctcaaaactta | 60 |
| ccccggattg | acttcagtag | catagctgtg | cctggcacgt | caaacccccca | acagcgccag | 120 |
| ctgccagaa | cccaggtca | gcactcatct | cctgggggaaa | tggtatcttc | tcctcaaggc | 180 |
| ctagacaacc | cagccctgct | ccgagacatg | ctgctggcca | accgcgatga | gttgtccttg | 240 |
| ctgaaggagc | gcaaccacc | cttggcgga | gcttctgctc | aattggaaaa | tcg | 293 |

<210> 988

<211> 397

<212> DNA

<213> Mus musculus

<400> 988
gaactgagag ctttcctggg caccgcctcc ctgctccnaa caccacctgn gatnccaaag 60
caacantcctt aocctocctgg gtgattgagn caccctgcan gcagcatgtg ctgctgatga 120
nagctcggga tngcnatcat gaatggtctt ggattccaaa cctgcctgtg gtcantctng 180
tatcaccgac nacgacaaca caaaangttt ctgncttgct tttgtcatct gtaagatgac 240
gttcacaaca gcacagtccc agcgctacca cggccccaac agagtcagct gtactcaaga 300
cagaggaaga cgccatgatg tcaactgtac tgatggatac ctaggaatct aagatgaggg 360
ctggggagat ggctcangtg gcaaagtctt gcaaaca 397

<210> 989
<211> 140
<212> DNA
<213> Mus musculus

<400> 989
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aggaagggag gccaacgtca ctaacactgt atgtgcaa atgtccgcaata aaacactttc 120
caactttgta aaaaaaaaaa 140

<210> 990
<211> 111
<212> DNA
<213> Mus musculus

<400> 990
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tcagcatgct caaccaaaatc ttctgcaaaa ataagaagaa aagcaaaaaa a 111

<210> 991
<211> 107
<212> DNA
<213> Mus musculus

<400> 991
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gtttgagggg tgactcagga nccaggagaa ctatttgtgg ggagatt 107

<210> 992
<211> 184
<212> DNA
<213> Mus musculus

<400> 992
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cagaacacag tagacctagt tattcaacag tgagctcact gtctaaatgt tttttataaa 120
tagtgaagat atgtcaggcc agaactaatg tttaaaaata aatttataca tagaaacaaa 180
aaaa 184

<210> 993
<211> 162
<212> DNA
<213> Mus musculus

<400> 993
gactgaggtt tctgaacttg ttcattggctg gattttttaa aaatatattc aagatttctt 60
gttaccgaaa tgtaagttag aagataaaaa cctctattgg ttcatccat tttattctat 120
tggnggatta aagtattgaa tttttagtga ttaaaaaaaaa aa 162

<210> 994
 <211> 243
 <212> DNA
 <213> Mus musculus

<400> 994
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 ctatgaatca gagtcaccta gctaggccaa tcccagaacc ccgaccgtct aaaaccacag 120
 atgtttgttt tgtcttgaga ctgtgtaact caatttgtga attggtgctt agttcccttg 180
 ccccttgagc ctcacacagg ctggaactta atgcatgcag cagcatgcct gatatactca 240
 tta 243

<210> 995
 <211> 145
 <212> DNA
 <213> Mus musculus

<400> 995
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 ctccggctcc gcgattcatc agccttgtga ccttgccaaa atcatttggc tttatgaaat 120
 aagtctcaca tctgaaaaaa aaaaa 145

<210> 996
 <211> 199
 <212> DNA
 <213> Mus musculus

<400> 996
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 atacaatagt aatgtattcn ttcaagcctt tcancagaaa acaccgnggn tggctgtgca 120
 nngctgnctc tgncttgaat cgaanggata atggctactt cctgattaaa gccgggtccac 180
 cgtaagcaga aaaaaaaaa 199

<210> 997
 <211> 237
 <212> DNA
 <213> Mus musculus

<400> 997
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 gccaaagtga ctgctgctgc tgctgataca tgctggtgtt gttctagtgg actgctgctg 120
 ctgctgatac atgctggngt tgttctagn gactggattg ctgacgatga anattggaat 180
 aaccccaaag aactatttat aaacagggtnt acaacctgtt tcctattaaa aaaaaaa 237

<210> 998
 <211> 440
 <212> DNA
 <213> Mus musculus

<400> 998
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 aagcaagcct gggagcctac aaccccgccc tgtacccaca ggggcccttc cagcacagcg 120
 caagggtgct tgagagttag gccagcctgg attcacagga tcctccccag gaagtggcct 180
 tggacattaa gttgaactac atctacaagt tcctgaccct gtgtctocta ntccggccag 240
 tgtcctacac ggatgccagc atcttggatc tgatggagct gctgtgccgc gcaangcctg 300
 gatgtaaggt tgtgcctgct gcccaanact gacctccagc aactnctgct cctgntgctg 360
 gagagaatcc aacaatggcc tggaaaagct tcancccttt tnttgggcct taacttgggg 420
 ggtgcgacca ccaccacaac 440

<210> 999
 <211> 237
 <212> DNA
 <213> Mus musculus

<400> 999
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 ctgttctctc tcaccacaac ctgaatatct tctgagtttt atgggatttt ctgtgacagt 180
 gaagttttang ttaagatggt aacactgtta ttaaaatagc tattacacaa aaaaaaa 237

<210> 1000
 <211> 189
 <212> DNA
 <213> Mus musculus

<400> 1000
 gactgagaca acacctgagg tgaaaactan acccagaagn gcgggctgct gcgtctcgaa 60
 gtcagccata acaagcatct ggcttggtatt tggggagggg acgattctcg attcttcgtt 120
 caactctttg gagctcccct ctcaagcaaa ataaaccaat aggaatgagn gtttatttaa 180
 aaaaaaaaaa 189

<210> 1001
 <211> 348
 <212> DNA
 <213> Mus musculus

<400> 1001
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 ccaaagaaca ctgacgccng aacaaaggan aanagtgcct gcgatctttt aacctgtgtg 120
 acgccaataa tccgacnctg ccaccggcct gtgaagtggc cttgcgcgaa ctgggctacc 180
 cantaaaact gngttggacc annngntcan aggnataaan nantgactac tctttgcgaa 240
 nggctgagtt cagatcccng caancacatg gnggcttnna ncattcgnaa cganaacctt 300
 tacnctnttc tnaggngnct gggaacagnt tcaactggact tacctata 348

<210> 1002
 <211> 263
 <212> DNA
 <213> Mus musculus

<400> 1002
 cagactgaga attttcnatt tgtccctgaa cgaacgctgc ctttctgcat cgttggtttg 60
 caagtactgg cgtgaccttt gcttagattt ccagtttttg aagcagctgg accttagtag 120
 tcgtcagcag gttactgatg aattattgga aaaaattgcc tccagaagtc agaataaat 180
 tgagattaac atttctgatt gngnaaannt gacnaacagn gnggggggtg tgctaacatg 240
 gaaaagtcct ggacttctta agt 263

<210> 1003
 <211> 251
 <212> DNA
 <213> Mus musculus

<400> 1003
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 aaaactaacc tnananaacc tgnnngagng gaccagggtt ttgnctcaag nagcagacgg 120
 nencctgtca ctcttctctc agcttctcga taccnccgcc gaaggctctc anggnctcga 180
 gatgaacgnt atcggtcaga tgttcataca gaagctggcc aggcagctct tgctaaacac 240
 aaagaaaaaa a 251

<210> 1004
 <211> 326
 <212> DNA
 <213> Mus musculus

<400> 1004
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 acctttctac ttctgtctat ggagtgtctg gattaaagaa ganctgaccn tacacantaa 120
 ccagnengag aaaagcctna aacaagngag ggtaaagcag tctanccac ggctgnanaa 180
 nanagctnag angtcaaaag cacctgtctg tcttncanat gaccagagtc cagttcccag 240
 catccanatc aggtttctta tancaggctg tanccttcaac tatggaggga anccancatc 300
 atgttttggc ctccacaggc atgcac 326

<210> 1005
 <211> 485
 <212> DNA
 <213> Mus musculus

<400> 1005
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 ggggtctcatc cagaacctct tggaatatat tcatgtogac ctgggcctgc cgtgggtggg 180
 agccattgcc acagtgtant aggacntcct gggnnngggt ggaaganttg gggacaaaag 240
 ngcagaggtn agaaaaccag gtgattcann anggatggt aacattcaac ttttatttcc 300
 tagagagtgt tagaaagcca cttatctgcc cgcagtgtt gggagggtana ggaaggagg 360
 tcancgtnc aaccttaagta attaaagaat tcaaggctag cctcatacct taanactgn 420
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<210> 1006
 <211> 368
 <212> DNA
 <213> Mus musculus

<400> 1006
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 ccacctgga gaagacctgg ctcttccacg agattggccg ctgttacttg gagctggacc 180
 aggcgtggca ggcccagagt tatggggaaa agtctcagca gtacgctgag gaggaagggg 240
 acctcgagtg gcagctgaac gccagtgtcc tgggtggcgca ggcccaagg n aaggtggggg 300
 nctnanactc ccannccna ngnntnnaca nagnnnnnnt gagannccat tnttaccata 360
 acttgag 368

<210> 1007
 <211> 309
 <212> DNA
 <213> Mus musculus

<400> 1007
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 gctggccaac ctttgtcacc acctcaacag ctctagcatt taagtgttaa tttctcccag 180
 caacaggaca caaaagtaat tgagaatggc catgaacttc tcctcctcct gccttcaact 240
 tccaggatgat acggattcta gngtgcntc acacctctg gctaataaat gagtttcctt 300
 taatttaaa 309

<210> 1008
 <211> 115

<212> DNA
<213> Mus musculus

<400> 1008
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agctnccagg cagagagccc ggctgtgant gccangnngc atgccatcgc tgcca 115

<210> 1009
<211> 132
<212> DNA
<213> Mus musculus

<400> 1009
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atgctaccca ttctgttatg gagagtctgg gctgaaaatc tgaaaataaa taataatcca 120
cagaaaaaaa aa 132

<210> 1010
<211> 135
<212> DNA
<213> Mus musculus

<400> 1010
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canctcaggg cttttctttct gtctctgtgg gaatgtttga atttccaatt aaaattggct 120
ttattaaaaa aaaaa 135

<210> 1011
<211> 178
<212> DNA
<213> Mus musculus

<400> 1011
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caaagagcaa tacaggaata tattgattta tcatctgata ctgaagatgt ttctccaaat 120
tgttccagta cagttcaaga gaaaaaattc agcaaagaca cagtgattat agtgaag 178

<210> 1012
<211> 260
<212> DNA
<213> Mus musculus

<400> 1012
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atccatccat tgggtgccata cancttccaa ggctgtgaac tgccctggca ccaacatgaa 120
gatcatttgg gtaagactgt gnagaggact gattatntnt taattgaggt aagaatagat 180
gacaaaaaat accctatcaa ccattttaat gtacatctca ggagcattaa ttatgttcat 240
tttgctgtac aaaaaaaaaa 260

<210> 1013
<211> 176
<212> DNA
<213> Mus musculus

<400> 1013
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ggccaaagtc ttccaggact atgtgagtct ccaggattct ggaacctgga ccgcttcttt 120
ttgctttgtt tgtatgtttt gagactggnt ctttgnngcc ttggatgtcc caggaa 176

<210> 1014
 <211> 247
 <212> DNA
 <213> Mus musculus

<400> 1014
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 tcatactggg ttagaacact atgggacctg acatttgcgc tgcttgggca gccagtgcc 120
 attggtactg ctaagaagcc ctactctac tgcagaacac taatctgatc ttggaagtgg 180
 ctgattgtgg caggatgttt cgaagatgat gatggcaaga aagcaagatg tccgcataaa 240
 aaaaaaa 247

<210> 1015
 <211> 493
 <212> DNA
 <213> Mus musculus

<400> 1015
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 ggcaaagtac caatgtcctg tgggtgggatg atcccccaac ataaccacag cccacagtct 120
 gagcctattc accaaatcac agtgagtcag acgacgttca aacctggaga ccagatcgaa 180
 gttactttat caggaccacc atttagaggc tttcttttgg aagctcgtga tgctgagaat 240
 ttgagcggcc ctctatttgg ctcttctact ctgattgaca gcgaagagtc acagcttctg 300
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 attaaagnct actgggatgc tccaagccct gcccagatc acatacgatt tctagctaca 420
 agttgttcag anattaaaat ctacctgggg tgaagattcc gagtcctcgt cctctgctca 480
 ctggggcctg att 493

<210> 1016
 <211> 333
 <212> DNA
 <213> Mus musculus

<400> 1016
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 tcaagctctt gcttctctctg cctcagcctt aacaagtgct atgctgacaa ccagacccta 120
 ttaccacaag cttgaagaat caaggaaatt aagtacaaca gttttccctt acaggaaaac 180
 atccaagact cacagcagag gactcctaac tataacagca ccaactgcta caaacactgc 240
 ttttctata tggtctgcag catggccaca gaggagaggc agctttttaca gtcttgcca 300
 gcttggaact cactatgtaa atcaggctgg tct 333

<210> 1017
 <211> 325
 <212> DNA
 <213> Mus musculus

<400> 1017
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 aaaaatcccc ccagaaccaa acaactggcca cagcttaacc tgcattccagg tcggagacac 120
 aaggactgga aactggcttc actcgataca ctggcctanc tccagggtct tcatggattc 180
 ctccagcttc agcactcctg cgtgagaaac accaaacagg attaagtgtc atggaacagg 240
 aggaaggccg catgattcac cagctcttta agcatgtttt tgtggacctc taattagaac 300
 cagggtccca ctggaaaaaa aaaaa 325

<210> 1018
 <211> 220
 <212> DNA
 <213> Mus musculus

<400> 1018
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 actacagcca ggtcctctga aagagcagcc agngctctta accccaacca tctntncage 120
 ctgagaagtg cgtgttctta tcatgagaag acaacaagc aagtggagtt gcaaagctgc 180
 ctcaantggg taaaggnact tgctgccaag gcttgcaagc 220

<210> 1019
 <211> 199
 <212> DNA
 <213> Mus musculus

<400> 1019
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 gtctgaagca gatgagcacc ggaaacctga ggctgtcatc ctggagggta attactggaa 120
 gcggcgcacg gaggtggtga tgcgcgaata ccacaagtgg agaattctact acaaaaagcg 180
 gctccgtaag tccagcagg 199

<210> 1020
 <211> 271
 <212> DNA
 <213> Mus musculus

<400> 1020
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 ttggaacata tttgttgtat gaatgtctcc caggatatat caagaggcag ttctctatca 120
 cctgcaaaca agactcaacc tggacgagtg ctgaagataa gtgtatacga aaacaatgta 180
 aaactccttc agatcctgag aatggccttg tacatgtaca cacaggcatt cagtttggat 240
 cccgtattaa ttatacttgt aatcaagggt g 271

<210> 1021
 <211> 247
 <212> DNA
 <213> Mus musculus

<400> 1021
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 aggcgtttac tccacagcag aagtgtggag attggggaca ataagtggaa ggcccctaag 180
 atggagctca gcttgtcaga cttggcagcc atcactttgg cctgctgaac catctcacca 240
 gccactt 247

<210> 1022
 <211> 203
 <212> DNA
 <213> Mus musculus

<400> 1022
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 gcagggaccc tccnctact tgctgnaacc tgaggnangg ctggntatnt ngtggtacgc 120
 cgtcaacatc actactgact tcttcaaccc actgtatgct ggaaccaagt atgaactggg 180
 ccccgccctc tacttgggct gga 203

<210> 1023
 <211> 283
 <212> DNA
 <213> Mus musculus

<400> 1023

| | | | | | | |
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| cattcgctgt | aggaaactcg | tccggcgtgc | agctgaggaa | agaaacacct | tcgaaagaag | 120 |
| gatatctcca | aagaccaggc | tcccgcggcc | tgagtgcgag | acagtgatgc | caggagggag | 180 |
| gcaaaggaac | ttggaagcag | cggatcccg | cacaggcgcg | gcacggggag | cagccccatc | 240 |
| attaccacgc | ggctccttca | ccagctcctt | ctogaagaaa | acg | | 283 |

<210> 1024
 <211> 157
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 1024 | | | | | | |
| atccccatctt | tgtgccccac | acanagenca | nttttgaggg | cagnttnccc | caagctgngg | 60 |
| atgggtgtgg | catgcctgac | aatcaaaggg | caagggngctg | angggancct | ataaagnnac | 120 |
| ttgggagaan | ccacacacct | gacttgagg | attctgg | | | 157 |

<210> 1025
 <211> 171
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1025 | | | | | | |
| gactgagacc | tctccagcat | caaccaaacc | cgactcgagn | tncaattctn | tggtaaaatg | 60 |
| gccatgcggc | anggaggncc | ngentaccog | cttnatgtnn | tccnacanc | tcnccacna | 120 |
| tgccaccag | accatnaata | taagagatat | tgtgcttgga | ccatatgaca | c | 171 |

<210> 1026
 <211> 202
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1026 | | | | | | |
| ataacgaaaa | ctgtggttga | gaatatttgc | nngaaagata | gngntgaatn | atgtnaccnn | 60 |
| gacctggctc | catnctaga | cactggcact | actgnngagg | accgcctgaa | gatngatgtg | 120 |
| atcgactggc | togtagtttg | acccggccaa | gatagcagga | agccctgagg | cgaangcanc | 180 |
| gccatcatga | ggaagttctt | ac | | | | 202 |

<210> 1027
 <211> 249
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1027 | | | | | | |
| agactaagct | ggattcctga | ctgacccagg | aggctgcatg | catgctgtct | agagcctcgc | 60 |
| tcagnacagt | gctggcctca | tccccacacc | agccatcgtc | actctaattg | ntcctccttc | 120 |
| cagaaccaca | gnnttntcat | ctaggcaaga | atgngacaac | actcagcctc | gngaaaatct | 180 |
| ntgggtgctt | atggacctgt | cacacaaang | ggaatgagtg | ntgnttgata | gtacttgat | 240 |
| ctcaacaat | | | | | | 249 |

<210> 1028
 <211> 101
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1028 | | | | | | |
| tcaactcctg | ctacacagtc | cttctattac | ctctgagcta | aaggatacct | tgnttcacaa | 60 |
| ataaaaagga | tagccaagga | aggcaaatat | aaaataaaaa | a | | 101 |

<210> 1029
 <211> 262
 <212> DNA
 <213> Mus musculus

<400> 1029
 gactgaggggt gctgaacagt ccaaaatgat ccaggtgtat gcagttcaaa tccttgcccc 60
 agtgagggaa tccctagga agtgggtgat gggactagag tagatccact tcctccagtt 120
 catncgcnct ntaanaaat cacggagncc naggcacaan aagagnnagc tagcngcttg 180
 cttaaatatt tcagcgatgt taggcgtnta tcttcacaag acccaccgna aggaaangag 240
 cnggctttgt tttcatgatg at 262

<210> 1030
 <211> 109
 <212> DNA
 <213> Mus musculus

<400> 1030
 gggactaagc cgaccttgaa tggattcgac tgactactac caagnngaac cgatcatgct 60
 agcctttgna cacaagaat aaaaatgtga agaactttaa aaaaaaaaaa 109

<210> 1031
 <211> 176
 <212> DNA
 <213> Mus musculus

<400> 1031
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 cggaggatga tcancgacga gcacnttnc ntcttgatg cttgnttgca gngangnaca 120
 ccttcttcog agnngaacaa agcttcttcc tataatgaat cacactgtct ctacgg 176

<210> 1032
 <211> 108
 <212> DNA
 <213> Mus musculus

<400> 1032
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 gcggtgcagt ggtttgaaat taaagcatta ttaagtacaa aaaaaaaaaa 108

<210> 1033
 <211> 374
 <212> DNA
 <213> Mus musculus

<400> 1033
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 ggttcgggc gccctctgct gcctattgng acnccgncca ccaagttacc caggcgggtg 180
 aggtcggggc ggagctctgg agccatgact gagccgcagg agcagctgct gcaagctgca 240
 gaaggacaac cgagatgggc cgctgcgga agcaggagct agaagagctg gtgcgtgggc 300
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 agcgcagcct tgca 374

<210> 1034
 <211> 307
 <212> DNA
 <213> Mus musculus

<400> 1034
agactgagac aaggagactg acnngattgc atcntaccca tatanntana ctggetgacc 60
ggggagtttc aagcatctgc ctgcctttgc gcaactcaaaa gaatgccatc acccttggat 120
tttggaatc aaaccaagga catcatgctt gcaaggtgaa aattccttct gntggtttcc 180
agagacacct gggaagactc tggggagccc ttggctaata atctcaggaa aactgctgcc 240
ccggctgaaa ctggaagctc atggtggacc caagatctct tatctctggg acacttaaaa 300
aaaaaaa 307

<210> 1035
<211> 111
<212> DNA
<213> Mus musculus

<400> 1035
aaccgccgtt gaaaccctgn ganatcgaac atattanttt caagcagaag atgagcaggn 60
antatatagc gtaagtactt tcaaagagcn cnggagccag taggtttgaa a 111

<210> 1036
<211> 267
<212> DNA
<213> Mus musculus

<400> 1036
atttcaaaag atccctaata ttgaaaatga gacaatgac cctgtactga cgtcaaagag 60
agcaagttag ttancagtca gtgaggttgc aggccttttc caggctgac ttcagaatgg 120
nttaaacaaa tctgaantta gtcataaggca agccttccat ggctggaatg aatttgatat 180
caagtgaana tgaaccatta tggaagaagt atattttctca gtttaaaaat ccccttatca 240
tgctgctctt ggcgtctgcg ggcaaaa 267

<210> 1037
<211> 290
<212> DNA
<213> Mus musculus

<400> 1037
gggaccaatc tccgttgcaa atcctgntnt gnagactcga ctncacncc agggnacacc 60
ggggcaaac cttagtgcc tttgggcccc tccagcacct gggcttgcca aggtanggga 120
caacnctttt tattgtcaan accgtnnnta nanatgggca aanngggggn ccctctcca 180
tagaagcact cattttgcgg ggtncctgnag aggggccctc cccaaaaang tnacgncccc 240
ttgggggaaa agacaccctt tntntttttt tnttgaaaaa gggggggcca 290

<210> 1038
<211> 428
<212> DNA
<213> Mus musculus

<400> 1038
agagaaaacc gaagaacaca agacaaaaga gactgatggg gcacccagtg gccctggacc 60
gcggcaaacag ctagtgccct tatgtgccaa gaggaagtaa agaaagccac cagaagccca 120
cagagatcga cgagcaagat aaaagagAAC aagcaccctg ttgctcttta tggctgggga 180
gagagacaga tggacatggg aagccagaaa acacacaacg tctgcgcgtc agcctctgtg 240
cacganattc atgaatcanc acttcagacc aagaatagaa nacaggtgga gaaaaggaag 300
ctggctgccc aaaggcagcg gncnnacttc ggnggccgtg gaaaaaaacc agagggtaaa 360
gccggcgctn tgccgaaaac ccatggctga caaaagtata tgcggngcta cttcaagcga 420
ggcgctta 428

<210> 1039
<211> 342

<212> DNA

<213> Mus musculus

<400> 1039

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| agggggcgct | ggcaatccgt | cagctggngt | cagtcattctt | gaaacagnat | gnggaaactc | 60 |
| actggtgtgc | ccaatcagga | naanttcaga | cctccggaaa | ctacaagaaa | gggcaaaaat | 120 |
| tgtcatccgg | gagctgttac | ccaatgggtt | aaaagaanca | ataagcnaag | ggcncctncag | 180 |
| tgnggcctat | gctgagtcn | ncattgcccc | ctgggattgg | nctgaagnct | ggccccagct | 240 |
| cttcaacctg | cttatggaaa | tgntggtnag | cgnaagactt | aaangctttc | catggagccc | 300 |
| atgcgtgggt | tgaccanaag | ttanctcgag | aaggggacag | ac | | 342 |

<210> 1040

<211> 443

<212> DNA

<213> Mus musculus

<400> 1040

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| ggcagagacc | gggcgagggc | cgtngcactn | cgngggganc | tctnnagtgn | ttgnacagna | 60 |
| tggttggnaa | acttaaataa | cgtagggana | ggcgagccc | agaacttccg | ttttcctgct | 120 |
| ggctccttcc | tctgaccagg | gccaaggctg | aaacctggct | gnctctgcca | ggtaatgcca | 180 |
| ctgctgctga | tctgtgttgc | tatccaaact | ctatanaact | ggactgctgc | tgtatctgta | 240 |
| aagtgttggt | gagtggttgg | agctgccact | gctggctctt | gtaaaactgaa | ctgtttgattt | 300 |
| cctgacagtg | ccgatnaaat | ttgctacaaa | agaaccattt | ctnaataggg | ccactttccc | 360 |
| tggaaatcct | tntttccgcg | tacctttggn | aggttaaagg | ggtttaanaa | ccatcattaa | 420 |
| aaataagact | ttgaaaaaat | att | | | | 443 |

<210> 1041

<211> 259

<212> DNA

<213> Mus musculus

<400> 1041

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| cttcagtgtg | tgccaccggt | gggggaggca | cgagaagaac | ggggcactgg | gatacgatgg | 60 |
| ggaaagatca | agaacgcagc | acaccaagtt | tggaatggac | ttagcttcta | acctgctccc | 120 |
| tagctactga | catttttttc | atctcgggga | ggagataaca | gattagggga | gtgggacctt | 180 |
| ggagcaagat | cctacccagc | taaattttaga | tccagctgat | tttcagcccc | agctaatacag | 240 |
| ctcctgcttc | ctgaccttc | | | | | 259 |

<210> 1042

<211> 139

<212> DNA

<213> Mus musculus

<400> 1042

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| cacttggcta | ctcagngaac | attgattcaa | ccaaatgaac | tgattcaagg | gagtgacttt | 60 |
| tgaaattgcc | tcctgctaata | gnaaccagaa | agtacagcat | cttggatgga | gataccaaag | 120 |
| atcacaagat | ctttctttg | | | | | 139 |

<210> 1043

<211> 378

<212> DNA

<213> Mus musculus

<400> 1043

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| acacatttta | tcaaaactag | cacccaaaat | ctgccattgc | ttcctggaga | gaggaaacct | 60 |
| aatgatcctt | ttacccaaag | aagaggcact | agacagacca | gcattgcata | ttttgtcacg | 120 |
| ctacaatcag | gaatggcaag | tggtggtaac | cagaagaaca | ttttctctct | caaagaaaat | 180 |
| cagaccaaca | aagaatgcaa | gagaacccag | ctagactgtt | tggtatgatg | cttgctctcg | 240 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ccttttggtca | cttcagctcc | agcagacatc | caggaagctg | ggcatcctcg | gtctccccag | 300 |
| atttcaggct | gccagggttt | ggaaatgtcg | tctttgacta | tgatgtcttt | gaccagcct | 360 |
| ggtgtcctga | tgatgca | | | | | 378 |

<210> 1044
 <211> 166
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1044 | | | | | | |
| gatagggtgg | ttcaccgcgg | agtgcacgt | gcggttcatc | gtctccaaaa | acaagtgtga | 60 |
| gtttgtcaag | agacccctga | acatcattga | cttactggca | atcacgcct | attacatctc | 120 |
| tgtgctaagt | acagtgttta | caggcgagaa | ctctcaaaaa | aaaaaa | | 166 |

<210> 1045
 <211> 219
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1045 | | | | | | |
| gggagctggg | acaaaaacaa | gtgcatctgg | aagctggagc | tggagctgga | gctggagctg | 60 |
| ganctggngc | tggagctgga | gagaagcaca | ggaagggccc | gaggactaca | gaccctccga | 120 |
| agacaggctg | ggcattgact | aatcanaggc | tggtagcctt | gtcccctaca | ctangccaac | 180 |
| gccacctgct | ttttggcgac | tttcttgacg | acataggca | | | 219 |

<210> 1046
 <211> 302
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| <400> 1046 | | | | | | |
| actgagtgga | gctggcctga | actttggacc | ttgtcttcca | gtaggaaatc | agtctctcag | 60 |
| aaggcgatca | tggcctccaa | gcctgagaaa | aggggtggcct | cctctgtctt | catcaccctg | 120 |
| gcaccgccac | gccgagatgt | anccgtgagt | gaggaagtgg | gccaggcagc | ttgtgaagcc | 180 |
| agacgcgctc | ggnccctggga | gatgcttccc | acaaagacac | ctggggctgc | agtgggcagg | 240 |
| agccccaaga | cctggacgcc | ctccggcaag | accaatgcct | cactctctgg | agtcacacct | 300 |
| ca | | | | | | 302 |

<210> 1047
 <211> 209
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1047 | | | | | | |
| aaggaggaat | gagaactcat | tgacgtgggtc | gataaacnag | aacatgaagc | tgtggacaga | 60 |
| aggtgctgat | tcccgtgaag | cagtttccca | aggtgaggcg | ggagctgnnc | nntnntgcta | 120 |
| cnganccac | nagcatagcg | caccctggca | ttantggccc | tggccttcac | acacttgaag | 180 |
| ctaattaaaa | cgtttgggga | atgaaaaaa | | | | 209 |

<210> 1048
 <211> 337
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1048 | | | | | | |
| actgagatca | atcttctctg | tctgactcca | cctccgaacc | cctggacacg | accacttag | 60 |
| actcctctcc | aggtcggctc | tccattccca | gagcttgcc | ggtatgctca | aagatatcca | 120 |
| catgttggct | aagcaccttc | tgtcaagagg | aggccccgcc | ccccgcaaca | gtccccgcc | 180 |

| | |
|---|-----|
| ctaaccactc cctctacccc ctggaactat acagtttcta gttcctttgc aggtccccgg | 240 |
| tcccacccat ccaaatcctg cctgtccccc tcaccatagc acatgaactc tgtcacaata | 300 |
| taaattgggtt cctccgacac caccgcaaaa aaaaaaa | 337 |

<210> 1049
 <211> 275
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1049 | |
| acaacccct ctatgtggat naaaacttca tcnatncccc gctggcccaa cctgactggg | 60 |
| ctgccaactga agtttgggtat ggccgccttc cancaacnaa nggctttgaa ccatctagct | 120 |
| cttggacgtt ggaggtggna caanannccn ttgtcnagct ggtgccataa tgngaagact | 180 |
| gtgaagggttc natangacna cattgcatcc natganaccc acccatcatt ctaccnnagg | 240 |
| gtggnggaca tgtgccnagc ctcattttgc cattc | 275 |

<210> 1050
 <211> 244
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1050 | |
| ccatgcggaa aaaggcctgg gaagactggg acagtgagcc tgcctaccag catgggtggc | 60 |
| ccttcctgaa ggtcaataaa gagtgtgaaa cgtgagcaga gnntgncnat annnacttc | 120 |
| ngcnntgatn ngcnngagan ttgggaacat gcacagatgn tngggaaata ctcataggaa | 180 |
| agagagatnt gtatgggtaa agagctaaaa gaaagaacat catttttagtt aaaattaaat | 240 |
| cact | 244 |

<210> 1051
 <211> 251
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1051 | |
| atcaaaaact acctgacgcc aaaacacccc caaaanacct accanccatt cctgggggtca | 60 |
| ctanccctac canctgatta noctcccatg caagccatcc annanccaac ntgccacca | 120 |
| ncccggaaga taaacgntca antcgtatta aaaatcacaa ttttaaattg acatttaattg | 180 |
| nacncccggt agngacgcaa tgatncttct anggccccca aggcccttgg naaataaaaac | 240 |
| ctccacacc a | 251 |

<210> 1052
 <211> 105
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1052 | |
| attctactca agccttctgg aaaggactgt gttgcctttg atgcatggan caaagaattc | 60 |
| ttagattttt ctgccaaccc ctgaaaccgg accttgtgat ggcaa | 105 |

<210> 1053
 <211> 384
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1053 | |
| actgagggtc agtgaaatgg ctnagctaaa cctgagttca atcccaggac ctgcattgtg | 60 |
| gaaaaagaga accagcttcc acaagctgtc ttctgattgc tgcagacaca caatcaatca | 120 |
| atcaatcaat acattcaata ccattatttg tactattata tttatatttg acacaagggt | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttatgctgac | tcaggctgac | cttgaactct | tgattttcct | gottcagctt | cccaatgctg | 240 |
| gaattagagg | tgttattagc | accactatgc | ttggtatgag | tacatccttt | tgatcaatgt | 300 |
| ttgagaagct | catgttaatc | tttttcatt | ctgattggag | cacagcaggc | tcatggacca | 360 |
| gtgacacca | gaaattgagc | tgcc | | | | 384 |

<210> 1054
 <211> 395
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 1054 | | | | | | |
| ctcagggacg | cagctcacta | ggaatctaca | gattaagccg | tgggaaactcg | gtgaacacgg | 60 |
| gaccatgtgc | tttagatcct | acaggatggc | tctctcctgt | ttgagcagag | taaaaactta | 120 |
| caggaccctt | tggaagagat | tgtacagtac | ttcacaacaa | acagttgaca | gcagggaggt | 180 |
| caaaaacttc | caggccctgg | ctcacaccgt | ggtgggatga | gtaccggaaa | gtttgcgcct | 240 |
| cttcattcta | tgaatgacct | acgggtgcca | ttcattaaag | acaatttttt | gnaaacaaaag | 300 |
| tgcttantca | ccatccanga | aagcctttat | ctgggatgaa | naatcttgac | cgttggtctgt | 360 |
| ggcggggggt | tatttaactg | aacctctttc | aaaag | | | 395 |

<210> 1055
 <211> 156
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1055 | | | | | | |
| aaagcctggg | cagaggccnt | aattncttct | nggggaactc | tcaaaggccn | nncaggntnn | 60 |
| aaganctgtt | tccattctgg | ggatcatgtc | ttctccatgn | tgtacctctt | aagttttcca | 120 |
| tgatgnctca | aagtaaaagc | tttaagaaaa | gaaaaa | | | 156 |

<210> 1056
 <211> 225
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1056 | | | | | | |
| tttcttacct | cctgtctgtg | cccatgtcct | gggggccaga | gcctgggtct | actgtggaaa | 60 |
| gtgccagagc | tgacctgcta | ctctccaaga | gagactcaga | gcctgtgctg | gactcaggag | 120 |
| ccttccatgg | ccaggagagc | accctcagca | tcctgccagn | caggagacac | aaacnctgct | 180 |
| gtnagcaagt | ggaccacggn | tgtgccgagt | ttgcggacat | cctta | | 225 |

<210> 1057
 <211> 102
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1057 | | | | | | |
| gggtctacac | aataccctat | gtagcagaaa | ggccgatttc | ttacctattg | gagaacatct | 60 |
| gtctctaaat | aaaatctcaa | ttgttccaga | ggaaaaaaaa | aa | | 102 |

<210> 1058
 <211> 129
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1058 | | | | | | |
| agatcacctg | agactgangt | tnttcacagn | tgtttagctan | ccactgtctg | cgcactggga | 60 |
| accaaactg | catcttcttt | gaaaacacca | agtcagcttt | aatcctaaca | ctcaggaggc | 120 |
| agaggcagg | | | | | | 129 |

<210> 1059
 <211> 275
 <212> DNA
 <213> Mus musculus

<400> 1059
 tcgatcactg gcatgctgnc caaggctgcn tncatgagng atatcaatct cctttcgnac 60
 tgntcaaata aaaatggnnn tcacctcagn cctatgtnac acgacctcac aaangtggtgta 120
 ancagctgga anaggactcg gggacctggg caggctcctc cctgacgacgg accttcagct 180
 tnctcttggg catgaccggn agggacaana ctntttgctg ttttgaaaca aggnctccct 240
 ntgtagctna gactccccctg gaactcacta tgatg 275

<210> 1060
 <211> 231
 <212> DNA
 <213> Mus musculus

<400> 1060
 actgaggctt aatgctacaa ctgangctga ntgtntctaa gctacagtaa aagaaagtnc 60
 agaatcagga gacctcagct ccctgggaaa tggcttcaaa ggcaccactt tccaacaagc 120
 caccactcc ataattcaaa taagacagct caaaagatat gtttttattt tgggggaggg 180
 ggagacatgc ataccatcc ctaataaact aaatgcttga aatacagaat a 231

<210> 1061
 <211> 391
 <212> DNA
 <213> Mus musculus

<400> 1061
 aactgaggct ggtgacatgg ctccctgata tccaggatga tatccaagtg gctacaatgg 60
 gcgacatccc aggtttgtgc ccgaatgacg atgtgcctgc tccccctac cagatcccga 120
 gcatccaagg atgaccatcg aatgctcaag catggccatc acccatctcc ccacaagcct 180
 caaggcaact ctgctgggtt gtaaattgct ggtctccgtg cttccagtga acttgacat 240
 tcttctcatg gttggtccag gagaggccaa agctgagggc accctgcctt ccacccccag 300
 tccagcttga ccttttatct ggagcaacag tgtctagatg atgggtgggt gaggggtgct 360
 atactgtctg tccctctggg aagggttcga t 391

<210> 1062
 <211> 422
 <212> DNA
 <213> Mus musculus

<400> 1062
 agactgatat ttctctgagt ggnggaggan cctcagcgca ctgaaggccc atggcgcccg 60
 ggttggtttt tctttcttn ttcatcttcc ttcttttnaa aaggcaacag aagagccttt 120
 gccgactctg cgaaaagggtg tcacggaggg gccacccgc cctcccatag cgccggcacc 180
 tgtccaggga cggcctcgtc gngccacagc canatggagt ntttccgat nggggggggg 240
 agggtnttct ctttcaagca attattttat ttttttatcg nttttaattt taatcatagg 300
 gcacatatct aaaaaaagta tttttaaaca caaaaaaccc tgaaatgtat atttggatcg 360
 ttttaaggca attgaaaacc ocacctcag tatcccgctt tatatcgata gtcctcccc 420
 cg 422

<210> 1063
 <211> 347
 <212> DNA
 <213> Mus musculus

<400> 1063

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| taatatactc | tgatggaact | gntggcmttg | ntgcannent | tncantntnta | cntaattnac | 60 |
| ttgtacganc | tacancngat | tggaaanact | tnnntatnga | nnnganont | tattttggat | 120 |
| nnctnnctct | gtgtgcncctg | agagctgcaa | tcctggattc | aggaaagttg | tcctggagag | 180 |
| caagcctacc | tggttgctttg | attgcactcc | ttgccagat | aatgagattt | ccaatgaaac | 240 |
| aggatgaagga | caagttttctc | agaggatttt | ccattctttc | tacagtgtctc | tcacaaaact | 300 |
| aagtaaaggg | aaaaaaattn | naccggggga | cccccttggc | cattacg | | 347 |

<210> 1064
 <211> 405
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| <400> 1064 | | | | | | |
| cactgaggag | gcagaagcaa | atggaactct | acctagtgtg | aaagccagct | tccttggtct | 60 |
| agacttccag | cccatccaag | actacataag | agatgtggcc | tcaaagaaaag | aaaggagaac | 120 |
| gagttggaga | aaagctgtca | cgaccctcca | aatcaatat | atttacagct | tcctgagagg | 180 |
| acggcgatgc | taaagactgt | ggcatngggg | naannngtct | aaaaaagtgg | gnngcttgac | 240 |
| aaccccttgc | cagaaccatc | attgnnaaca | ttggcaaggt | gtgtganctn | gaccgagaac | 300 |
| aacacccccc | ntgtgtggtg | tgcccaggac | ccccaccagc | ttgnccttgc | tcccattggc | 360 |
| cgagttttga | aaaaggatatg | cnnccaatgg | accaacaaaa | acctt | | 405 |

<210> 1065
 <211> 334
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1065 | | | | | | |
| gaggaggact | tccggtttcn | cancacaccc | gtnttntntn | cagccgtggn | gctgnggctc | 60 |
| acagcaggcc | tgcgcgggcg | ggcgatntgt | gtacgcgcaa | cactacatca | ccatcccggg | 120 |
| gggctgcncc | tgctgcccgc | aacccggaca | aatccgtnga | cacgtgcaa | ctccagcatg | 180 |
| gacaanctga | tgctggggcc | cgncgacagg | cctgcccagg | cgcttangcc | ggggactgcc | 240 |
| cccatggacc | aanttaactgn | atgcatcaag | gaccncggcc | ctgaaaaacc | caccccatga | 300 |
| tcntgggncc | tgctaatttt | tcaaaaagga | aat | | | 334 |

<210> 1066
 <211> 344
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1066 | | | | | | |
| gaagaactga | gtgtgagccc | tgataactga | gtgtgctnag | tgctgggtctg | ccatgctaag | 60 |
| cctgtctccc | aggaccaggt | gacctgtccc | ttcagcttct | ttctcacacg | cagatgaaca | 120 |
| ctggacttca | gaaattgtga | aggttccgac | cgctgcagag | gggcttacat | tggaatggc | 180 |
| ccctcttgcc | cctcacccat | tcaagagcat | cttccacctg | ttccaggacc | aatgtgtctc | 240 |
| attcccaagt | ggcaattagt | tgtctagaaa | ttcaacactt | ctctgtaacg | ttagactgtt | 300 |
| ttgttgtaaa | ttcttgaccc | tggtcttctg | ttgcacagtt | gggc | | 344 |

<210> 1067
 <211> 808
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1067 | | | | | | |
| gatccctgtg | ctcctgagcc | ttcatgtggg | atccaagatt | ctcctggacc | ctttgccacc | 60 |
| tgcccttggt | ggctotggaa | gctcccgcga | cctgttctgt | naacctgaaa | gctccctggg | 120 |
| gtcaccttact | ccatccctga | aangatgcc | tgcactaaat | tctggtcgaa | ctcccagcgc | 180 |
| ccacgagtgt | gtgcctgtgc | anagtccact | tgcgttgctg | agttgcccg | tgtgccaaaa | 240 |
| ngcgtttgac | ccgaagctga | cncagctaga | tgtggatagc | caccttgctc | actgcttggc | 300 |

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-----|
| tgantgcanc | gaaaattggt | gtggtgagca | tcnggggtgcc | ttgctgtatc | tccttcaaac | 360 |
| ctacacancg | acattggatg | tggcttctga | nacatcgtcg | tgtggacacc | tgaatnttgg | 420 |
| ctccntctgg | ttttgttcat | gggcattgga | cataatgctg | gtcactgaca | gcaggnaaca | 480 |
| ctgatcctct | gtggantcat | cttcattgtc | agcctgacag | gattggaatc | accaggaaaa | 540 |
| nacntctcag | gtgtgcctgt | naaaaccgtt | ccccnaaaaa | taactgggga | aanggaaatc | 600 |
| ccccctgaaa | tnnttggtggc | ncnttggnct | gggtgccnc | tgaattgaaa | aagggaaaaa | 660 |
| tggaaaaaat | tgaaactgtt | tcnccccctg | ggggangtta | ataaaaangcn | ccgccccncc | 720 |
| tgctnnnggg | anccataact | acttttggtg | acngtgcccc | cctgncccn | ggaaagtctc | 780 |
| ttactgttna | aacccaaaaa | aatttttaa | | | | 808 |

<210> 1068
 <211> 156
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1068 | | | | | | |
| gactgagctc | aaggtggggg | ccaaagaccc | tgtgttaagc | aotcatangt | caagctgggg | 60 |
| atacaacccc | taaaaacagc | acaccaccca | tgtttaacct | catgaagaaa | gataaggaca | 120 |
| aagatggcgg | gcngaaggag | aagaaggaaa | aaaaaa | | | 156 |

<210> 1069
 <211> 363
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1069 | | | | | | |
| tacaatgaag | tgttttaatt | gcaaccctga | tctttccgag | cttgaagtgg | tgaagcctga | 60 |
| ggacagtggg | atagaagctt | octacagtcc | cgtgtgtttg | gaaccttcct | gtaatgactg | 120 |
| tgttanaaac | catganaggt | tgtntttcat | cgactcacca | attgngggac | atgataacaa | 180 |
| ggaaaaatcaa | cgcgtacaaa | acacactana | tagttcaaac | gaaacagaan | agctagaggc | 240 |
| cagtaaaactg | tatgaggaca | gnggntactc | atntttcaca | caaagggacc | gngacgatgg | 300 |
| catccttata | ctggagaatt | tcaaaaacag | tccccaggcc | cgtntgntgg | cattaaaaaa | 360 |
| aaa | | | | | | 363 |

<210> 1070
 <211> 151
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1070 | | | | | | |
| aactgagatc | cgtccagaaa | gtgcccagaa | gaaacttcct | cttagaaaaag | ctgaaaacac | 60 |
| agtatttata | acactggaaa | ttgtaaagaa | tttgttttaa | atggctgaaa | acaatagtaa | 120 |
| aaatgtagat | gtatggccta | aaacaaaaaa | a | | | 151 |

<210> 1071
 <211> 390
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1071 | | | | | | |
| actgagataa | tattttgatga | tgagtgancc | gngtcctcaa | gaangccagt | nncactgnan | 60 |
| agagaggaaa | gancaccagg | ggccacttat | gcnnataaac | tgncaggacg | ngtccttnaa | 120 |
| gttntggaan | agagnctcc | agtgcatttc | accatcatct | tcacaggatg | gaagctatca | 180 |
| gtttgnccta | tggtttattt | tctaggaacc | caagctactt | tcataatgaa | aaaacagaga | 240 |
| tggaaaagac | ggtgtctgac | tgctggacaa | gtagttacca | ggngngacta | aagaatatcc | 300 |
| tgnngntaca | tccattcggn | ngacatggtt | ccatgtaggc | agactttntt | ntctanagct | 360 |
| tttggaaaaa | aggaaacctc | atttcaggac | | | | 390 |

<210> 1072
 <211> 491
 <212> DNA
 <213> Mus musculus

<400> 1072
 actgaggtgt tgccatggtg atggctgtgg aagacagcgt gggtcgggtg gtcgtgcggg 60
 tgaggcctcc cccccctaag gagctagaga gtcagcggcg gcctgtgatt caggtgggtan 120
 acgagcggat gctgggtatgt gaccccgagg agtgtgatgg gggatttcct ggcctaaaat 180
 ggagtgggtc ccacaatggc cccaagaaga agggcaaaga cctgacattt gtctttgacc 240
 gtgtctttgg tgagatggcc actcaggagg atgtgtttcca gcacaccaca cacaacatcc 300
 tcgacagctt totccagggc tacaactgct cagtgtttgc ctatggcgcc accggggctg 360
 ggaagacaca cactatgctt gggaagggan ggagagcccg gcattattgt acctgaccac 420
 catggaactg tacaggcgtg tggaagcccc caggaaaaaa agcaattcga ggngctcatc 480
 aagttacctg g 491

<210> 1073
 <211> 488
 <212> DNA
 <213> Mus musculus

<400> 1073
 acggcaggtg atgtctgtgc tgagtctctg gagccagatt tctgctgcgn ggtctcacag 60
 ngcggggtaa acccaagcct ctcccggtcc ctaggaaagc gatgcaggct ggatgtcaag 120
 gattcctttg accaagcttt gctgaacctc aggccagccc agggtttgca ggatccacag 180
 ccattgtttc ttccaagccc ccataactgg gagaagccag ctttggcctg acttccacca 240
 ccaccatttn tgccccacan aaggttccta gtcaggaaaa cctacaacca caggacacac 300
 ctgtgtgttc cacagntctg ccttcttcca caccagcaa aaaattccct tcctgggagg 360
 aaaccagtag gngacacaaa cacttatgca ccttctccct aatttctggg ganaattgag 420
 cccttggtct gggtacctgn aatggttata aaccaataaa aatggttctc aagagttaaa 480
 aaaaaaaaa 488

<210> 1074
 <211> 407
 <212> DNA
 <213> Mus musculus

<400> 1074
 tgaggaagaa gttttggtat gaaggctcct ccctgggggtc tcaattgacc ccagggccat 60
 ccaagcatga gttcctcagc aagaccacct caaagaagac taggaaggaa gacagcatcc 120
 gcctgagggg cctgaacggc ctctctctaca aatcattgac ggaactgctg tgcactcctc 180
 aagtgaacca ggaggtctac gacctgaatg tggagctgtc caaggtctct gtgacttcaa 240
 acttctcagc ctgccgagtg tactggaana cgggggtctc tgcggagcaa aacaagcaca 300
 cggagtcggt gctgcanagg agccgctgcc tacataaggc atcttctgat atctcaacaa 360
 accctgaaaa atgttccacc catagtgttt gttcaagaca aaaaaaa 407

<210> 1075
 <211> 170
 <212> DNA
 <213> Mus musculus

<400> 1075
 gcggatggcc atacttacat gtgtgggtttg aatctgccag nanaaaangc taaaccacat 60
 gatgtacnna ttaacatcnn atcatacctc cgagtgcac caantacaat aanaccggc 120
 agccgcaaaa atccctgact tccccctcn atnacacaaa attaaaaaaaa 170

<210> 1076
 <211> 233

<212> DNA

<213> Mus musculus

<400> 1076

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agactgagga | gcctgagggg | ttcanacgga | ggccttgaat | ctcctggagc | tgaactgcct | 60 |
| gacatgaatt | ctgggaagt | aatttaggtc | ttccanaaga | gcagtatgca | ctcttaacca | 120 |
| ctgagctact | catttttgtt | gcaggcgctt | gcaatgaggg | atccgctgct | tctggtgctt | 180 |
| ttcagcgact | ggactagggt | tctcctcgtc | ctttccctcc | tgaaaaaaaa | aaa | 233 |

<210> 1077

<211> 511

<212> DNA

<213> Mus musculus

<400> 1077

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| cagacataat | tgttttgtct | gataatgagg | cctccagtcc | ccgatccagc | tcccggatgg | 60 |
| aagagagact | caaagcagcc | aacctagaga | tgtttaaggg | gaaaggcatg | gaggagcggc | 120 |
| ancagcttat | caagcnaact | agggacnagc | tacaattgga | aaaagctcgc | ctggtgctgc | 180 |
| taaanaaact | gagacagagt | cagctacana | aagagaatgt | ggtccaaaag | actccagttg | 240 |
| tacagaatgc | agcatctatt | gttcagccat | ctcctgcaca | tgtgggacaa | caaggcttat | 300 |
| ctaagcttcc | ctcccgaacc | ggggtcaag | gaattgaacc | tcaaaaatag | agaacattac | 360 |
| agggtcacag | tgtcatccgt | tcaagcaacc | aaccaccacc | ttccacacat | gttgatgtct | 420 |
| caacgtgtta | ttgcccaaat | ccaacccaac | tttanggcc | gcgggggtcca | ccgaaacctg | 480 |
| ncattgtacg | caccacacac | ctaacatgaa | t | | | 511 |

<210> 1078

<211> 209

<212> DNA

<213> Mus musculus

<400> 1078

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tctctaccct | ccagagctct | cttgagtgtc | gaggcttcgg | ncgtacttgc | agccgctgna | 60 |
| nagataacgc | ctgagtcctg | aattgcttta | cctattgcan | gttaaaagnc | tacagttcaa | 120 |
| acaaaaaccc | tgactgtctg | agaagcagca | tcaatctgca | gaagcggcct | ctggagttat | 180 |
| acacagataa | ggacacagga | tgaaagacg | | | | 209 |

<210> 1079

<211> 471

<212> DNA

<213> Mus musculus

<400> 1079

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cacccctcag | atctgtcttc | aaaaggcttg | ttcaagtgc | aggagtggcg | gagcacgttt | 60 |
| gtgatcccag | cctttgggag | gtggaaacag | aaggatcgga | agttcaaggc | cctcctcagc | 120 |
| tattatagca | ggcagtacat | tccgtgttca | ccgtgtgcca | gctgacggnt | ttcaggtgag | 180 |
| ttgttggtc | attggccaca | cgctactctg | agccaggnga | tgtggtcatc | tccatttcat | 240 |
| ggatgcacgc | tgcaaaccct | gtgttctttg | ggaanacaat | gtaagcctga | ggggaagtct | 300 |
| antaaggcaa | naggctaggg | gtgaggaagg | gctgaaanag | ggaactgaga | tccattcga | 360 |
| actgccatgc | aaactataaa | gtatcctgng | tgngtcttta | cacgtgccta | atgngcctc | 420 |
| attananaca | actgggtttc | gcactgccac | ttaacattgc | aaagtcactt | g | 471 |

<210> 1080

<211> 332

<212> DNA

<213> Mus musculus

<400> 1080

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|----|
| aactgaggaa | tcagagactc | agccaattgg | atgtcoogaag | actcgggagc | agggagggaa | 60 |
|------------|------------|------------|-------------|------------|------------|----|

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gcgaaggang | ggcngaagat | gntnacancg | cngncngngn | atgnnctngg | aggncccgnc | 120 |
| tcctcncttt | ctataatctg | gcggnnctta | antgnatnac | caatnnnate | gggcctacct | 180 |
| nccgagctga | ccaatgggag | ccggaagcgt | tggccaggcg | tgagggtcgc | gaggcggcgt | 240 |
| atggcggacg | cggtgctatt | cgagtttctg | cacaccgaga | tggtggcgga | gctgtggggc | 300 |
| ccggaaccgg | accaggtctc | ggggggggagc | gg | | | 332 |

<210> 1081
 <211> 160
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1081 | | | | | | |
| aagaactgtt | accgaantc | gtgcaccttc | agtccgaagg | ttacctctgc | ctccgaggcg | 60 |
| tcaactgcc | ccctctcctg | accggaactt | gcccggctga | caaatccaga | gattttgaag | 120 |
| agttntganc | caccactgct | nagctacaaa | aacaaaacaa | | | 160 |

<210> 1082
 <211> 435
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1082 | | | | | | |
| cgtctacgct | cctctntana | ctgaggtaca | gttaaagaat | ctggtgcaaa | acacaaggga | 60 |
| cttattgaaa | taccagcct | ttctgaagaa | aacgaaatca | atgacactga | ggtgaacgtg | 120 |
| agtgaaaaga | aaggagatgg | ggaaatactg | aaggatctca | tgagaacgac | aggcaccgcc | 180 |
| aaggncaggg | aggcccttgg | agagtacctg | aaggcactca | agacggaatt | tacaacagga | 240 |
| atgatnctta | ccaacaaaag | ctgtagcaac | ccaaggaact | tgactcttca | ccagggaac | 300 |
| tgagatgaaa | acaaagcntg | caggctttct | tcccaggagg | tcactggggt | gttgaaggga | 360 |
| ttcccacagg | nagccttttg | gnacctttgn | ancannaagn | ttggttttgn | ccaccggacc | 420 |
| agtcaggaaa | cccag | | | | | 435 |

<210> 1083
 <211> 210
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1083 | | | | | | |
| tgggcagagg | ccataactac | ttcttgggga | acnctcaaag | gncggacagg | aancatggct | 60 |
| ggcatccata | tatcgtagct | cctcgatcag | agaagatcct | atactttcta | ganaatagga | 120 |
| acntccgaat | anagaacctt | gcagaaagct | cagacgntct | nacgtncnga | ggaagcgang | 180 |
| ttgaggtgcg | tgggacaaaa | gaggagagaa | | | | 210 |

<210> 1084
 <211> 322
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1084 | | | | | | |
| cgtggtgact | attccacttt | catttgaaaa | gaacacgcat | cctgctggct | ggaatgcggc | 60 |
| tatatcatca | atcaactctg | ctcatccagt | tacatccctc | gggtcatctc | tgcccttagc | 120 |
| tagcccatag | gnnggctcgt | tttacatcta | gaagaggaga | ggaacctcaa | ctngangaaa | 180 |
| aatgcctctg | taaagatcaa | gagctagtca | tgccaaagcc | cgngtnaggg | catcttatta | 240 |
| natntacttg | gaatagatta | ngngggggag | agggcccctg | ccccattgan | ttgngnttgg | 300 |
| tngcccattc | ccttagagct | ag | | | | 322 |

<210> 1085
 <211> 109
 <212> DNA

<213> Mus musculus

<400> 1085

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| atgaactgag | acattgtctc | atgtagttcc | ttctgtggac | gtttggagtc | aagaagtcaa | 60 |
| tcgtttctgat | aactacagat | tggattccta | aaggtgcaag | aaaaaaaa | | 109 |

<210> 1086

<211> 279

<212> DNA

<213> Mus musculus

<400> 1086

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaatgtcagc | gggacatccc | tgagcagcac | cgcagcgcan | atgtgcacag | atgaggcagg | 60 |
| aggacggcag | gtggagtaag | ctctctgatg | atgtcactca | taaaaagcaa | gccacgagcc | 120 |
| aggttggcga | catagctcaa | ggggtanagt | gtcacggag | gagccgcagc | gaaaaccctg | 180 |
| ggttcttcca | tgcccagcac | cgtataatcc | aggtcctgtg | ttnaaatccc | anaaaccaca | 240 |
| tgggggntca | caaccctttg | taacgagatc | tgactccct | | | 279 |

<210> 1087

<211> 471

<212> DNA

<213> Mus musculus

<400> 1087

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| ggactattga | gcaagcgttt | aagccccag | ttctgagcca | tggcctctgc | agtcctcagc | 60 |
| tctgtgtctc | caactgcctc | tcgctttgcc | ctgtacaag | tggacagcgg | cagtggctct | 120 |
| gattccgagc | ctgggaaagg | caaaggccgg | agtaatggga | agtctcaaac | tctgggaaac | 180 |
| aaagcaacct | caaatgagaa | gaaacgggag | aagagaagaa | aaaagaagga | acngcggcan | 240 |
| agtgaagcaa | acgagctcag | gaatcttgct | ttcaagaaaa | ttccccagaa | atcctcccat | 300 |
| tccatttgca | atgttcaaca | tgagctttca | tcgccnaacc | cnacncaaaa | aggngtcccg | 360 |
| ggaanaaaaac | tggcaagaag | nggggacccg | aangatgaac | cgctgacctc | tgaaatgttt | 420 |
| gaaactgacc | ttgaaaaaagc | gttgctgttg | aataaactgg | agtatgaaac | c | 471 |

<210> 1088

<211> 283

<212> DNA

<213> Mus musculus

<400> 1088

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgagaga | caaagccctg | aagagtctgn | aaatgagtc | gcattcttta | gtcatgagct | 60 |
| ataaccctga | gtttttggc | agacctgatg | gcttgagcct | gctgatgtcc | agtgttctgg | 120 |
| aaatccagtg | cccatagatg | tggactaagg | aagagcccg | ccatggtcac | tctcatcaca | 180 |
| gagaagctgc | agaaccagag | tttggatgac | ctcaccgcga | gggcctgtga | ggctggcccc | 240 |
| tattntgctg | agaanctgaa | caaaagnngc | catttgttcc | ctt | | 283 |

<210> 1089

<211> 369

<212> DNA

<213> Mus musculus

<400> 1089

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actcgaggga | cacatgcctg | tgtctcacia | nntgctnccc | tgcctctact | ntgtgaattt | 60 |
| nccaaactct | ntaactctga | ttcatcttaa | ttcactcttc | cctgtagnnt | gtgtgtaaag | 120 |
| agcccttaaa | gcaatatgg | ggagggtann | agntgagagc | cngtggcnng | canngcctaa | 180 |
| acttggtaca | ncaaaggaaa | tttcnaggga | cttgntnctg | antctgggag | acacaggcga | 240 |
| tccatcctct | cccctatttc | taangaaaca | gtataacttt | gggaaatgga | tgattccatg | 300 |
| tttaagaggc | ctgnnattgt | atacttggca | tttctgattt | cagttctaaa | attctgtccc | 360 |
| ttcgtcata | | | | | | 369 |

<210> 1090
 <211> 164
 <212> DNA
 <213> Mus musculus

<400> 1090
 tgcaatgcgg gcacccttcc catgntgaaa ggaatccttt gtcactcacc angtgaatga 60
 gactatactg atgggcctng cctgtaaaag gaacaatatt tttctttctt tttttcatgc 120
 caggttatta aagatatagt gaactgaaag ttcaaaaaaa aaaa 164

<210> 1091
 <211> 384
 <212> DNA
 <213> Mus musculus

<400> 1091
 ggctgtctct gccaggaagt cacgctgaac aaacaggtga acttcancaa acagaccatc 60
 gcggggntct ncnataaaac ttttncaaga cnttnnnntg tagnnncaca nnaacagaat 120
 gagaccctgn ccccgctgga gggngagatc actcagctgn ccaaactcag cggccagatc 180
 caggagacag ctcaagaagc ggacctagac ttctctcagg agttcaaaaag cacactgagc 240
 aagtgcagca gcgtgcccag ctccaagcca accacagnct catctgagat gaagaataaa 300
 gtgtggaatg tttccctcaa gagtttctgc ttaaaaggat tgctgaagaa gttcaaagag 360
 gatctccagg gagagctgga gaaa 384

<210> 1092
 <211> 368
 <212> DNA
 <213> Mus musculus

<400> 1092
 actgagaaac gggcgtgcag gaggtcagaa ccagggtggat atgaagtgca gcggccacat 60
 gctaaccacc tgtgccctgc tgtcctggag cacagaggac caggagccca ggccacgagg 120
 cctgcctgca tcacaaccag actgtagcca ggagaggctg agctcaatgg ttctgcagaa 180
 cgggtggaagg agttcggccc agccttgccct gaggtgtatc tggggggagt ctggncattn 240
 taatcntacc naccatcatt ataagannca tatggnnctg nngaaatggc taacgggcnt 300
 aaaangcnta ctganctttc taaaggnccn atgtnanaaa ccactaccaa cctgggggggt 360
 ttccacac 368

<210> 1093
 <211> 338
 <212> DNA
 <213> Mus musculus

<400> 1093
 gcagccgact gtgaagaaga aaaagaagat ggattttactg aaacncatgc aggaagagcc 60
 actttncgag gnggagccnt gtnccagnac nncatntcct agnccngaga anaagaagaa 120
 cangaaaang aagaggggng ctntgnacta atgaaaagga accatngccc tgtncnccan 180
 cncatnntgc ttacgattna nttgggagca nagnncatca gatgctctca tattatcccc 240
 ggagggtttaa tatctaactt ttcaagcctt tttgtgtctt gacatcaact gttgacctta 300
 gtctttgata cacaaataaa atattttctt tgtattat 338

<210> 1094
 <211> 373
 <212> DNA
 <213> Mus musculus

<400> 1094
 gtggaactct cacaaggtnt ggacaggaac catggctagg atccatatat ntactgcctc 60

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gatcgactaa | ncctcttatac | tttctaaaga | anaggacctt | ncgaatcgga | actttcaaaa | 120 |
| gctcgacctg | nacgtcttct | aaagagagag | ggctggataa | anggaggnnn | gnggcngggg | 180 |
| naancnaggn | ngtcacacac | tnanncanna | anccctccta | anggagnntt | ccaccatntc | 240 |
| ctgaggctgc | actgcctgag | agccactgac | tgccttacct | atgaggctcc | tgggctggag | 300 |
| ggcgagcaca | aggagtgggg | actgacttca | aggttggaga | gaagcgcana | cccnagggt | 360 |
| cgtggtgaaa | gcc | | | | | 373 |

<210> 1095
 <211> 141
 <212> DNA
 <213> Mus musculus

| | |
|--------------|------------|
| <400> 1095 | |
| tggttaattgga | tatacagatc |
| agggtcaatac | catgtgtatt |
| tcctaattgcc | aaaaaaaaa |
| | a |
| | 60 |
| | 120 |
| | 141 |

<210> 1096
 <211> 279
 <212> DNA
 <213> Mus musculus

| | |
|-------------|-------------|
| <400> 1096 | |
| gttttgccctg | gataacgaca |
| gcactcaoct | gncaactgna |
| gaccactaag | actgctgggtg |
| tggnccttcgn | ttgtaatgng |
| ntaanaaaga | gcccccccaa |
| | gctgtacatt |
| | tataaaaaa |
| | 60 |
| | 120 |
| | 180 |
| | 240 |
| | 279 |

<210> 1097
 <211> 300
 <212> DNA
 <213> Mus musculus

| | |
|-------------|------------|
| <400> 1097 | |
| agagggtcatg | aagcangggg |
| ttcctnaaaaa | anaccaongg |
| ttgctatctc | attccctaag |
| tngggcctan | actctggggc |
| ggccgccttt | cnttnggggg |
| | gaggacaccc |
| | ccagcntgct |
| | ggaacaaaaa |
| | attccttttg |
| | 60 |
| | 120 |
| | 180 |
| | 240 |
| | 300 |

<210> 1098
 <211> 152
 <212> DNA
 <213> Mus musculus

| | |
|------------|------------|
| <400> 1098 | |
| tccttcacaa | aaaaatctct |
| tataggttat | aatgnggana |
| cacntgggga | ggcttttttt |
| | catgtcccaa |
| | gt |
| | 60 |
| | 120 |
| | 152 |

<210> 1099
 <211> 284
 <212> DNA
 <213> Mus musculus

| | |
|------------|----|
| <400> 1099 | |
| gggggccaa | g |
| | 60 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgnnctccgc | caaaaactgn | aggtgctggg | tcaggaaaac | tgccttgtgc | aagcttactg | 120 |
| gggaggcanc | acctcgaaaa | caagctgcaa | acanaaggca | gccaggccag | ccgntttttc | 180 |
| aaccagggaa | aaantanagc | cngttttttt | cctgcaactt | atcaagtcnt | tcaaaaaaag | 240 |
| agganccaaa | angaggggat | gaggnccatt | tgaaaataaa | aaaa | | 284 |

<210> 1100
 <211> 302
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1100 | | | | | | |
| caaattgatcg | cctcctgtac | tggagctgtc | ctgacatcac | taatggggaa | aatttatgat | 60 |
| cccgggccaa | attatgtanc | ttngattatt | ctatcaaagt | tttattatnc | tggnaaaaaa | 120 |
| gtgatgnana | ttttgagggg | gtggcgggcg | agggatccct | ccncattgc | acaanaannc | 180 |
| atngtttcgg | ttatttgnag | nnaccggggn | gcattganng | aaaaccccg | gcctatgntn | 240 |
| nntaaaaacat | ttttcttcac | aaaaagaggg | acaanaaagn | ncccttggg | atcggggccc | 300 |
| cc | | | | | | 302 |

<210> 1101
 <211> 334
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1101 | | | | | | |
| aacatgtgcg | ccgttcnctg | ccagagctgg | ccancacan | ggctgacatg | ccagagatgg | 60 |
| gaagagcana | gccagggccg | ntatatacac | cgngggagcc | cccttgcant | gcttganaaa | 120 |
| acttgggagg | acaacaagng | ggtnccttcc | gtaagngagg | aaagccttgn | tnaaacaggc | 180 |
| catnattttc | cgggaccaca | ntgaacccca | ttgccccaa | gcccacaagg | cangcaatng | 240 |
| cngcccgenc | ttncctcctt | gtaaccaang | gagggaacc | tggngggttt | tttgggtttc | 300 |
| cgggccatt | ttttttttt | ccacctttgg | gttg | | | 334 |

<210> 1102
 <211> 138
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1102 | | | | | | |
| ggggagccgt | ctccgtcttc | ntccctccnn | cacaatgaga | gttaatngtt | gnngntggcg | 60 |
| acnccctcag | cctgaacgtg | nattgatccc | ntctttgaca | gntggacttt | caaagaccnt | 120 |
| atttcaaatt | aaggtggg | | | | | 138 |

<210> 1103
 <211> 239
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1103 | | | | | | |
| tatgcacca | gggggggacg | atgaaanaaa | tctatnnnga | nctctncaan | aacaccngtg | 60 |
| ggagcacaat | agctganatt | cgaaggcttg | nggattgana | ttgaaaaact | tgaggtggc | 120 |
| ttgcaccaac | aggaacttgn | tgagatgaaa | gcacaacctg | ggagttaacc | atggcccgan | 180 |
| atgcggnaaa | ncctgnaaac | aggancggna | tttggttcat | cgccgagggg | aaagaaaca | 239 |

<210> 1104
 <211> 136
 <212> DNA
 <213> Mus musculus

<400> 1104

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| tttttttttc | caagaattta | aggctcctga | catattcatg | gaagtgctgc | caaatccccg | 60 |
| ggtccccgat | taaaaaaaaat | ctggggggga | attttaggga | atatggntng | tttccggnaa | 120 |
| atatgcgagt | coatca | | | | | 136 |

<210> 1105
 <211> 256
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1105 | | | | | | |
| aaagacatcc | tgaaancttc | tccagnaaag | agcccaggca | cacggcctga | atatgaggcn | 60 |
| ggcgggaacc | cccttcatag | ggaaaagggtg | gcccancan | ancaactttg | tgctgnctgt | 120 |
| ggccgnagn | cttcggtggn | tttggncaac | gtcggnggtt | tcccgtccct | tntgntanaa | 180 |
| aaagggggga | ggggcgtncc | tcaatnccgt | atttttat | tcttnttggg | ngagccngcc | 240 |
| ccgcctgtgt | tttttt | | | | | 256 |

<210> 1106
 <211> 297
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 1106 | | | | | | |
| gcaagaaagg | ctttcctgcc | gagcagggtg | cgggcttgat | ctccnacnct | gggtnttagn | 60 |
| gngganaang | ccnctttntt | ttctgaaaag | nggaagcaaa | acgcctcccn | cttgcacagg | 120 |
| ggggccatgg | gtaaaccctt | tggtgggttac | cacctgattg | aatggggggg | gggtttgnaa | 180 |
| tgacnntctg | gnaccaattg | aattaaaaaa | ngggggaagc | ntttttttnc | agttaaagtn | 240 |
| gggggggttaa | aaanggaanc | caaccctgaa | aatttggttt | taaaactaac | cttgccc | 297 |

<210> 1107
 <211> 282
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 1107 | | | | | | |
| aaaatgtgct | atggaggcta | aagaatggna | cttctttaaag | aaaatatttg | ctttntgcaa | 60 |
| nogacggagt | cagtnaaanc | anccagtngc | aaaaagggtt | caccagggtt | gncttacgng | 120 |
| gggggaataa | aaacctgcca | ntcaagctgc | aatggattga | nctctgcggg | nggttncaaa | 180 |
| nggaaanatt | ttgttgaaat | tgagcgtgct | cggctgacta | aacccttanc | nctattaaaa | 240 |
| gancaaaaagg | gcgattgtga | aaaaggctgc | ctcctccttc | aa | | 282 |

<210> 1108
 <211> 231
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1108 | | | | | | |
| attttctttt | acttcggtat | ttcctntntt | tattntnttt | ttttctntc | cntggtcttc | 60 |
| ttntnttgn | atctnnnnt | ttttantcag | tattganaan | acagccacgg | ctgtggccca | 120 |
| ctgcaaacgg | ggtaaatggg | ctcatcaagg | tgaacggacg | tccctggag | atgatcgagc | 180 |
| cgcgcacgct | gcagtacaag | ttactggagc | ctgttttgc | tctgggcttt | t | 231 |

<210> 1109
 <211> 142
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-----------|------------|------------|----|
| <400> 1109 | | | | | | |
| ggaagggaag | gttctctcaa | cctgctcgct | gtcctatga | gatgcctgtg | gagttctgag | 60 |

| | |
|---|-----|
| tctgtgtggc taaaaccatg aagttctgat taccgaaaca gtgctggctt gatggaagat | 120 |
| ctgtctggag aggttatata ta | 142 |

<210> 1110
 <211> 429
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1110 | |
| agactgaggt tttgtggagt cggagctgaa gaagattctg tcagtgcaac gagaggctcg | 60 |
| cctctggaag gtgggcaacc cggaggccg ggagctgctg accagccag acatcacact | 120 |
| ggaggaggct ggcattggtg acggccagca cctgctcctg gaggagatgg acgagatggg | 180 |
| aaactggccc cctccagatt gaggcccgtg cggcaggag cccaccgtgc ccacactcct | 240 |
| gggaccccag tctggcgtgt gcctcttctt gggacacatg caaggagtcc ctgaggccct | 300 |
| gngttttggg atgaagtaac atcctgtgtg tgtgcgggtg gcctgcctgg cacttgctcc | 360 |
| taccccgctca gactcctgca gatgacgtta ttaataaaaa gcttagtttt gacatttcaa | 420 |
| aaaaaaaa | 429 |

<210> 1111
 <211> 207
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1111 | |
| atggagtatg ccttgtnttg ccagaccanc ccttattatt gcattgtgtg accctgtngt | 60 |
| gnnanannnc tttntatgca tctggncaa nntcttnaag gggccanagc cggcgccata | 120 |
| ctcggggtcc atcacttggc tcantggatg accactttgc caaaacactt aggtgacaca | 180 |
| ttggcttttag atcaaaagca cccaaga | 207 |

<210> 1112
 <211> 147
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1112 | |
| gtatcctgtt ttatatTTTT gtctttgacc cgttnggact tgagtTTTgt gcagaggaat | 60 |
| aantanggat ctatttggat ncttctacat tctgacatcc agtttgacca tcaccatttg | 120 |
| ctgaaagaag cgtgcctttt tttccag | 147 |

<210> 1113
 <211> 127
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1113 | |
| aaaactccat gagcctcctg atacagngtc agatgacgac aaagaccatg gaaagaaaaa | 60 |
| agggaaattt aagaaaaagg agaaaaggac tgaaggctac gctgccttcc aggaagacag | 120 |
| ctctgga | 127 |

<210> 1114
 <211> 107
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1114 | |
| cagcctggcc tacattgnga aacctcattt cgggaaagtg aaatactttg tcaattaaca | 60 |
| tgcaccngg ttcaataaag acttttggaa agtgtcaaaa aaaaaa | 107 |

<210> 1115
 <211> 173
 <212> DNA
 <213> Mus musculus

<400> 1115
 ggctggccta cgttgntaaa cctnntttng ggaaagtga nnaactttgnc aatttcacgc 60
 agccggctca ataangactt tnggaangtg tcaaaaacta tncntggcta aanaatgggc 120
 ctcccctctt ctttataaag cgtgtttgct gacattaaaa ttgaactttg atc 173

<210> 1116
 <211> 162
 <212> DNA
 <213> Mus musculus

<400> 1116
 taattacttc ttgtggaact ctcaaaggnc ggacaggaaa aaaaaaggag ccctaaangg 60
 accggggggg ggggggnttt tnncccttngg ncacaaaaana ncncoccttn tttntnnggt 120
 tgcccngatt tcccttngta cctcccgcaca tttttgataa aa 162

<210> 1117
 <211> 306
 <212> DNA
 <213> Mus musculus

<400> 1117
 ctgaggtaca ccaggggttg gaaaaaccca ctaggcana gacttgcac aagatcaggc 60
 ctgaagtacg ttaaccgttg ganatctagc tcgagaaggg cnntnatnag gacngctnag 120
 angnngagta tngntgnccc attctaaann aggatagggn tgcccatnag ntagaacatc 180
 tcntgcagga ngnnnggggtg acatgaatat taccocggag tgtntacttc ttcccngca 240
 gctgggcctn tatatgtgnt gagagccgat naacaaaatg aatgggtngta ttgtttacac 300
 cacctg 306

<210> 1118
 <211> 162
 <212> DNA
 <213> Mus musculus

<400> 1118
 ttgtggaact ctcaaaggc ctgacaagga agcatnngca gntcananaa aggggcagcc 60
 tggcctacat tgaaaaacct cattttggga aagtgaann ctnggtcaat naacaatgag 120
 cgatggttca ataangactt ttggaaaggg tctcaaaaaa aa 162

<210> 1119
 <211> 215
 <212> DNA
 <213> Mus musculus

<400> 1119
 ctgggggggg aggaaaagac ncccgggagn ggganatttt ttttgagaca aaagatgtnt 60
 tccagctgaa anacctggag aagcttgctc ccaaagagaa aggcataccc cgcctgtca 120
 gtgaaaggaa gtccttcaac cctattggat gacgggttg ttgactgcaa aaggatcggn 180
 accnccaatt actatggggc ttttcccgag caggg 215

<210> 1120
 <211> 153
 <212> DNA
 <213> Mus musculus

<400> 1120
 tgggatgccca ggtctgtacc aacacaccca tttnttgtgt gagtccatca cangtgagca 60
 aanaccgaaa gnaggcagnt tttnttttgt ttgggggggag gaangcttaa cggcccgtga 120
 aaanaagngg ccaggggttt gtgcaaaagcc gat 153

<210> 1121
 <211> 304
 <212> DNA
 <213> Mus musculus

<400> 1121
 agactgagat gtcaaaaaag attggtcggg ccatgctctc tgggtgggaaa agaagaggac 60
 ttggctgctt aagacacact ggaccttggg taagtgtggc atccaggcag atgccaagct 120
 ccagttcacc ccgcagcaca aactgctccg cctgcagctt cccaacatga agtatgtgaa 180
 ggtgaaagtg aacttctctg accgagtctt caaggctgtg tctgacatct gcaagacttt 240
 caatataaga caccctgaag aactttctct cttaaaaaaa cccagagatc ccacaaaaaa 300
 aaaa 304

<210> 1122
 <211> 219
 <212> DNA
 <213> Mus musculus

<400> 1122
 aaggccctgt tgggggtggg tgcngnctag agnaggaaaaca atgacncctt tgagnggaga 60
 aaaccttttga tntctgtgng caacacggat cacaacaatc tgggggtgggg gctgggggtc 120
 tgaacctgcc cttttttttt tgtaggggac cttcttaaac cagtcaaggc tgccagaaaa 180
 acctttttta aaacaatggt gcaaaaaaca cacacttgt 219

<210> 1123
 <211> 240
 <212> DNA
 <213> Mus musculus

<400> 1123
 cctcccccaa caaggccatt tgtgncccn cctgtaaaaa anggatnatn atgangaaca 60
 ccngtggac canntnatca cccggtctgg ctgtgctccc tccctctttg caaagcaaag 120
 attgnntggc ccaacaccaa nactggcccc agtgccancc cngaagggtc aggccttnaa 180
 aggattgtnt gattgcccان caggcaaaac ggggggagga gctgccaagg aaaaaaaagc 240

<210> 1124
 <211> 287
 <212> DNA
 <213> Mus musculus

<400> 1124
 aagggcaagc agcgtggctc aagccgctca cctgcaagcc ttcgtcagcc ctgtagtcaa 60
 gaggaagcca gcagcttcac tacgtagtgt ggaaagagat ctgtctggtg acatcggacc 120
 agcgtgcttg tgagatacat gtgcatgtgt gcaagatgac gggaggaaga agcaaggaaat 180
 gttttaagga atcttcgtgt gtagcagagt tttctctggt gactcgcaat ctatctctcc 240
 tgaaaccagt aaatgaatta aaatgaatta acttaaagca aaaaaaa 287

<210> 1125
 <211> 180
 <212> DNA
 <213> Mus musculus

<400> 1125

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| cagtgtctaca | gtcacaggac | acaaggacgg | natgctggca | catgntngnt | gcnacacagg | 60 |
| atngngctatg | acatnctnn | tnncatgcac | ccgatgacac | ttctcatcac | ttttcccca | 120 |
| ggtactttct | ttgtctncc | tngctgaatt | tatgtaaaac | gaagtgcac | atttaatgat | 180 |

<210> 1126
 <211> 304
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1126 | | | | | | |
| gtccacgtaa | tctggggaaa | gcagtttctc | tggaaaagct | ttgcttcta | caaacacgag | 60 |
| ctttccctga | ggcctgcttg | cagccattgg | acacttggtc | tagtgtgtgg | atttctatgt | 120 |
| cttctgtcgt | aacanaattg | tctctgtgcc | ctgtgattgt | tttgggtagg | gacgctttgt | 180 |
| atccttgtac | agtagtcttg | acgattntcc | tcccctacgc | canttttttg | ttgngnttg | 240 |
| ctatctaaaa | ctggtatatt | tttctgttgg | ctaaataaat | caaagatttg | gaacttttaa | 300 |
| aaaa | | | | | | 304 |

<210> 1127
 <211> 286
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 1127 | | | | | | |
| caactgaggt | tggggattta | agagtggag | attgccaaaca | gctgtggcct | cccatgaggg | 60 |
| tgtccccttt | caagttctca | gaacggacgc | aggactgcag | atctgtgctg | gcagcagcag | 120 |
| aggctatatt | cccagaggag | tctccagccg | gcctgaaagc | aaatatccta | agtgcacatgt | 180 |
| ctgccaat | tggtctgggt | gggcacattt | ggtaatcctg | tctgtaccac | aggatcttct | 240 |
| atgcctttta | aaaataaaca | tttgtttata | aaccagaaaa | aaaaaa | | 286 |

<210> 1128
 <211> 118
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1128 | | | | | | |
| gattaaggcc | agactgacct | acattgagaa | acctcatttt | gggaaagtga | aatactttga | 60 |
| aaattaacat | gcancnggt | ccattataag | acgtttgtgg | aaagtgtcaa | aattaaga | 118 |

<210> 1129
 <211> 110
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1129 | | | | | | |
| gtaagggttg | ggctgatgta | aatcctgnac | aaangncata | attacttntt | gtggaactnt | 60 |
| nanaggtncg | gacaggaagc | ctggctgggg | tcatataggg | tgccctgctc | | 110 |

<210> 1130
 <211> 324
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 1130 | | | | | | |
| ccaactgagc | gtcctgagaa | caaaatccta | cntctgtcag | cctgtgggan | ggagganaga | 60 |
| tcatggnttc | tgagcctgtn | gagagaccgc | agagccccct | gcccttaaaag | ggcacacctg | 120 |
| gagtcccca | ngatcaatag | gaggatatntc | tgggcagccg | ntcctatcct | ncagctgtcg | 180 |
| gnaatcnccn | gancanggaa | canaacacgc | ctcccaagnc | tcctcataga | gagctgggtg | 240 |
| cctgcaaggg | ctctggaana | nctgnaccba | ccgtgagaag | ctctcccaact | cantgcggaa | 300 |

tgagccgagt ggtaggagc ttgc

324

<210> 1131

<211> 344

<212> DNA

<213> Mus musculus

<400> 1131

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaactgaggt | ggggtctttc | acctgaagct | ggccagtttc | ctgtgccaaa | gccttcgacc | 60 |
| ttgaaagag | cagcgagtt | ccaaaccaa | gtcttggaag | gaggaggac | catggttcaa | 120 |
| acctgtaaca | aagaggcctg | ctgtccagct | gccgggctcc | cttttgcca | gcaagcaagt | 180 |
| caccctcca | cctgcagtgg | caccggcct | ctaggagctg | ctgactagcc | tggtgagtt | 240 |
| gcttctaagc | cttccaagcc | tgagtacaga | gagaagcctg | gggaggagac | agctgtgaaa | 300 |
| gagcaaggat | agtccacctg | ccccctacc | aagttttgga | cgtc | | 344 |

<210> 1132

<211> 315

<212> DNA

<213> Mus musculus

<400> 1132

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gctgtgaaaa | gagctggagt | ccatctctgg | aggggctctg | naacctganc | acagangtgg | 60 |
| ggcctncgca | aaagttagga | ctctgactac | ctgnnagacc | ttncaccaa | gtggcactga | 120 |
| atagctcgag | tcatctttct | ttaaacaatc | tttctttaa | caatcacaag | cctgctocca | 180 |
| ggagcagtga | tatcattggg | tattctactt | aatgaaatca | taacatcagc | attataaaaag | 240 |
| ccccatcact | gtaaaagccc | tcaatagttt | tccttcctcc | ttcccatctc | ctgctatcga | 300 |
| ttgaggaatg | taagc | | | | | 315 |

<210> 1133

<211> 322

<212> DNA

<213> Mus musculus

<400> 1133

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaagaggggt | ctttcaccac | cagcccaagn | actctcagct | gctctgcaga | agacacttcc | 60 |
| ctgcatcgcc | ggagtcccca | aagatgtcag | ccactgagtg | tccagttccc | cnngctgggg | 120 |
| agaggagnng | ggnggccgga | gaggaggga | ccntggnagg | aaactgngan | gggtcctcat | 180 |
| ggttgcattt | cgaccccttc | cctantgtcc | attngtctgt | ctgtctgctg | tcctgtgtgt | 240 |
| tgtagctttc | aggttttttt | tcctttccct | ttttttgttg | gagttttgag | acntttttgt | 300 |
| accnggggga | ttttatttat | ca | | | | 322 |

<210> 1134

<211> 181

<212> DNA

<213> Mus musculus

<400> 1134

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| caggaagaat | tgagagaca | ttcagaagga | ctgcaaaagg | ccgacgaagn | ggctcagcgg | 60 |
| ataaaggtgc | ttcggtacca | gccggagaag | caacttccca | gagttatcct | ctgagcttca | 120 |
| cacataacat | ctctcccttg | cacaccatac | aatactaata | aataatttta | aaaagaaaaa | 180 |
| a | | | | | | 181 |

<210> 1135

<211> 277

<212> DNA

<213> Mus musculus

<400> 1135

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| tccaccagaa | ataccnccag | acccagggttg | ccctcagaag | gaaccaggct | ggctgatggc | 60 |
| atggcagacc | tgaaggtatt | gcttttaaag | gagggaatca | ggcctgaggc | atcaggcctg | 120 |
| aagggctagg | caggggctct | gccaggagg | gccctagcca | ggcctcagag | cctcactgga | 180 |
| gggtagtc | gggctaagg | cccaggctga | ctgcatttcc | actcccttcg | gagacttata | 240 |
| gctatcaaat | aaatatagaa | aagagccctc | ccccgcc | | | 277 |

<210> 1136
 <211> 275
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| tccttgactt | tgttttcact | gagaaggagg | gcatgtntga | tggcagctgg | gccctggctg | 60 |
| atgtcntgag | ccagctcang | angangcggg | cagccactac | actagatgng | aagattgnga | 120 |
| angnccggaa | gagaaggatg | gctgnggact | nggangccna | gtctggggang | gtggngngna | 180 |
| atganggcca | ggcagactct | gncctgangg | ggcnggnan | tccgggtgag | gatgaggcag | 240 |
| gctccaagga | tgaagactct | gagactgact | actcc | | | 275 |

<210> 1137
 <211> 128
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttgaaacccc | tgagtggntt | ngggctgagt | aaaacctggg | cannggccat | aattacttat | 60 |
| tgtggaaatc | tcaaaanncg | acaccannaa | agcatngcta | ggttccttnt | ttttataaat | 120 |
| cttaacct | | | | | | 128 |

<210> 1138
 <211> 142
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggagtgtgt | ctgtctnaag | tgtattaatg | acgcctgcc | cnangtggtg | ggaaagtccg | 60 |
| tgaaactncn | atcancaggc | taggtagtga | tggctcantg | gttaataacc | accgactgct | 120 |
| cttgataagg | tcctgacttc | aa | | | | 142 |

<210> 1139
 <211> 231
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gttaatgaca | caggcacagt | tggaagaggc | tcttnactgg | cagttgangc | cncttaaggc | 60 |
| cattnaagat | gcccccntt | ntggaagaac | gaaagcccat | aatgncgtt | ttatctgggg | 120 |
| ataanatctt | ggaagggnac | agaaacnaac | caatatgngn | ttactgggat | nttcattata | 180 |
| acataccccc | tcgggggngc | ggttttttgt | ggttggaaga | aaccaaccgg | g | 231 |

<210> 1140
 <211> 265
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| gccccatgtc | ctttgatctt | gggttggttt | gttgtgttga | gacaagggtt | ntntgtgtan | 60 |
| cacgttgtna | ntntgtanac | caggctggcc | tcaaaactcat | atttgccttc | ctctgtttcc | 120 |
| cagtgtnnng | antaaagnca | tgggccaccn | ctgggacaaa | tntgaacatg | gaaatnnnga | 180 |

| | |
|---|-----|
| tagtagcngg gtataacaca ctgcctaaaa cagggaccca taaatgcnat gacctaaata | 240 |
| aattaattaa ttcaaacaaa aaaaa | 265 |

<210> 1141
 <211> 175
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1141 | |
| aggtaaaacc ctgggcaaag gccataaatt acttcttgng gaactntcaa aggtcgtnc | 60 |
| ggaaccataa aaaagaacna actttttgca gattaaggcc agcctggcct actttganna | 120 |
| ancctcanc tgggaaagtg aaatactttg tcaatnaaca tgcacctgg gttca | 175 |

<210> 1142
 <211> 107
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1142 | |
| actgagggag acatccaggt accaacctgc cagaggagag agtgcactta ccgaataaaa | 60 |
| ctcaagtga ccccgagaaa aantntcaaa ggtggggggg ggggggt | 107 |

<210> 1143
 <211> 103
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1143 | |
| tttcatcctt tcgcctnttt tggttactg agtgggtnnn cctgangtn taccngggca | 60 |
| gagccataat tncctctcgt ggaactctca aaggtcggac agg | 103 |

<210> 1144
 <211> 267
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1144 | |
| gatccctcgg agctgaanag gatnagtcgg ttataagcct cctgacgtgg atagctggca | 60 |
| cggaacnng ggcctctcgg aaagaacnnc aagttgttct tagctgctgg gagtgtctct | 120 |
| gcngcncca aggaggganc ctgngcngat ngganaagca gtnnngagga ttctacagtc | 180 |
| aantccttgg atgaagtgtg tgcccatgca gngccccagt cctagcctgt atgtcnccag | 240 |
| gctcttcatt ccttcctcgt ccccca | 267 |

<210> 1145
 <211> 357
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1145 | |
| taactgaggg gatcttacag aaggctgaga cactgtacac catgggagac tntgagtttg | 60 |
| ccctggtagt tctatcatcg aggctacaaa ctgagacctg atcggaatt canagtagga | 120 |
| attcanaagg nccaggaagc catcagcanc tcggtgggaa gtocctnttn aatcaagctg | 180 |
| gagaacaaag gcgacctctc cttcttaagc aagcaagctg agagtaagaa agcccaacag | 240 |
| aagcatctgc ctataaagca actctcgtac agcaccaagc atgaaatcaa gcggaagggc | 300 |
| tcgctcaaga gcgagaanac cgtgcggcag ctgctcgggg agctgtacgt ggacaag | 357 |

<210> 1146
 <211> 155

<212> DNA

<213> Mus musculus

<400> 1146

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aactctcaaa | ggcccgcgcg | gaagcngctg | tgacacaaaa | naaagccagc | ctggcctacg | 60 |
| ttgacaaacc | tcattttggg | aaagtgaaat | actttgtcan | ttaacatgca | cgttgggtca | 120 |
| ataaanactt | ttggaaagng | tcaaaaaaat | taaaa | | | 155 |

<210> 1147

<211> 107

<212> DNA

<213> Mus musculus

<400> 1147

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gcctggccta | cattgagaaa | cctcattttg | ggaaagtga | atactttgtc | aattaacatg | 60 |
| canttggnct | aataaagact | tttggaaagt | gtccaaccaa | aaaaaaa | | 107 |

<210> 1148

<211> 274

<212> DNA

<213> Mus musculus

<400> 1148

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| atgttttcta | taccaacact | actgaactgg | actgctggtn | tattnatgaa | ggggttgctg | 60 |
| ctcctgactt | ctatnaactg | aaactgntgat | ttcctgacaa | tacagaacgg | gattntgctt | 120 |
| caaagaaaaa | tttctaaacn | ggatncnttt | gaccatttaa | ggncntgncn | ngacacnatt | 180 |
| cccagccctg | agngggggat | ttgntcggac | cctttcnaag | aanaactctt | gtnacaanaa | 240 |
| gatgtngatt | cttgganacc | tggccaaaga | aacc | | | 274 |

<210> 1149

<211> 167

<212> DNA

<213> Mus musculus

<400> 1149

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cgtttctttt | attctctctc | ctcttntcag | gntttctttn | gnnttcncct | ctangccacc | 60 |
| ccccgntnc | acaccantga | agnggctttg | ggctgaagta | nancctgggc | agcaggccat | 120 |
| aattacttct | tgtggaactc | tcaaagggtc | ggacaggaaa | aaaaaaa | | 167 |

<210> 1150

<211> 454

<212> DNA

<213> Mus musculus

<400> 1150

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actgaggcca | aggaggtaac | ttgtatgctt | ctgctccata | nagtngaana | ttggttggga | 60 |
| ctnactcagc | attttancnc | tncattggnn | gntttgttan | ngggtnccca | gaccncatn | 120 |
| cncngttntc | aagaanggtt | cagtgaagna | tgggnaggcc | tnantnacga | ngtggcgntt | 180 |
| accctacnct | ttttgattac | tcngtnagga | agcatggcnc | tacnttgcaa | aacacatngn | 240 |
| ttgtatttaa | cacntntgtc | tccccatttt | cccttgcctt | tttacatttg | ggctttgtta | 300 |
| tagggttggc | cgcccgccag | gncagaccag | accaggcngg | ccagttcctt | tggcnaacga | 360 |
| aagggcatcg | aaanactnaa | nccatgatcc | cacttttttc | ccccttgggc | nggggggcct | 420 |
| tnccaacggg | ggggctnaac | caaaataggg | ccct | | | 454 |

<210> 1151

<211> 162

<212> DNA

<213> Mus musculus

<400> 1151
acactgaggt tctaantgna aaatctgaca tcaatggcac catttgga aaactagtac 60
actgtacttt attttggtat caagaataaa gagtgattgg agctcttggg cagagagaga 120
ggaccctgct cngcccaggg catcgtaaac ttccaacac tg 162

<210> 1152
<211> 340
<212> DNA
<213> Mus musculus

<400> 1152
tgagtagcaa cccgcgccat ggagcaggnc tggngtgagg cccagcgc cccgcgccgg 60
gccntgccc cactgncggg ccnggcggcg gaaccgaggt gatccagggt accaacngt 120
ctccnagcgc caacttcaaa gcanatgcnn acgcttttcn gcttccttgg caagatngac 180
aaactgtnc nnttcccgcc ggtatgacta acctttggca ggctcctttc gggngtgctt 240
tnttaanant ccatgaatnc atacttaana ggggtggggc ncaagcattt ttgacaaa 300
ccaacgtgnn ggtttccgat gggncagaaa actttttgga 340

<210> 1153
<211> 112
<212> DNA
<213> Mus musculus

<400> 1153
gaggccataa ttacttcttg aggaactctc aaaggnnccg tacaggaatc cntgaggaac 60
acaaaaatg aggcccccg gaataacctc cacaacctt gtgggccctt ca 112

<210> 1154
<211> 212
<212> DNA
<213> Mus musculus

<400> 1154
caggggtgtg agtgagatac gagctgnncc tgntgacctg tgaactgngc tgccgatttc 60
cagacaacat agacaggaat ngctccaaag aacctttcta aacagggtcca ttcacctct 120
ctcttcata tcctttcttt ccactacct ttggtgggtg ctgggctaca aggaaggtta 180
aagcatttaa gaaccactat taaaaataat tt 212

<210> 1155
<211> 193
<212> DNA
<213> Mus musculus

<400> 1155
tggctcatgc ctggtgtcta gcctgccgag aggacgggtc tgcngcctgc tgggtcatat 60
tngngattg ctacagggtc gnactgctgc ccaagangat caagcttgcc cccaaagaac 120
tactgatgaa cagctccact tccctcataa cctaaaatct tttctttcct actcactctg 180
ctgagtgggtg ggc 193

<210> 1156
<211> 189
<212> DNA
<213> Mus musculus

<400> 1156
gcccgcactt ttactttanc taccaaataa taggatcagg tggaaagcnc tgccctgggt 60
tctgtccctg tggggtttgc ttctgatggg ctgtggcctg ngcctggcca ntaccaagt 120
cctacaggcc agnngcttac actggcaaca caagntgctt cccagtgga tctgggagag 180

ggttccttg

189

<210> 1157
<211> 205
<212> DNA
<213> Mus musculus

<400> 1157

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-----|
| atgagcgcta | ctttgancaa | cncaaggagg | ctnccttctt | naaanaaaact | ggttcgggtcc | 60 |
| nttattacca | acgttcggaa | gaacctaac | ttncacacac | tcanccagga | atccctcctg | 120 |
| aaggantncn | tccaaccatt | cttcnngang | ctnccactgcc | ttgacagcca | catgactgcc | 180 |
| tttaccocat | ggaggctcct | gggct | | | | 205 |

<210> 1158
<211> 177
<212> DNA
<213> Mus musculus

<400> 1158

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| acagctcttc | tttagaggaa | ncaggaggaa | tatgtggttg | aaaagggttg | tggacaggcc | 60 |
| gcntggtatt | aggggcnaaa | gnngggaata | tctngtncna | acgtggaata | ggctttttgn | 120 |
| ttgaggggagc | accaattaac | tatggtgaaa | cncnaggan | aggaaaactt | ggaattg | 177 |

<210> 1159
<211> 335
<212> DNA
<213> Mus musculus

<400> 1159

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| cactgagggtg | cgggaggaac | taagaagctc | aactgangct | cgcttccggn | agntgctggg | 60 |
| cacggacccc | cacgcacgtg | gacggtcacc | agnacgngca | tntgcttnca | ngcgtgtggn | 120 |
| aagtgttcnc | cgaggcgctg | naggcgnaag | gggtccgntt | canacggctg | ncggcagaac | 180 |
| gtggcggtgg | cagctgcgcg | tggctcgaan | caccaaangc | gcgccttcgc | ctgcacgggtg | 240 |
| gagcgcgatg | cccgnccgc | aattggcccc | ttctntcgcc | acggcctgcg | gtgaacataa | 300 |
| gccttttncaa | ctacatacaa | ccctgccacg | tccta | | | 335 |

<210> 1160
<211> 304
<212> DNA
<213> Mus musculus

<400> 1160

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gcagggttat | ggggggcnca | aaggacatga | ttatgtgtat | gaacnttcca | taagagnng | 60 |
| atttacactg | gctggtntga | tggcagcatc | caggctgtga | ggctcaatnt | gatgcccaaa | 120 |
| ttaccgctgt | tggggggatg | gctggncctc | tgatntttgg | gcgttggggg | atcactttga | 180 |
| aaacaaacca | cttgcttgac | nggaccnccc | caatcccaaa | nttttcaaaa | acctttaann | 240 |
| ggncnaatgg | ggggaactgg | ggangccctt | tttttttact | gcccgggnaa | gggattccaa | 300 |
| cccc | | | | | | 304 |

<210> 1161
<211> 190
<212> DNA
<213> Mus musculus

<400> 1161

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| caccagcaaa | gaacacactg | ngctctgggg | agaagggcag | attncgcttc | gtctgccgng | 60 |
| gttcaggagc | actcttcaaa | agcgctgtt | nacacgcna | ctctgaatac | acnaagactc | 120 |
| ttcctgccac | cactntggaa | gcgggctccc | tanaagtcta | tnaaatatga | atggacccat | 180 |

gaccataaa

190

<210> 1162
<211> 488
<212> DNA
<213> Mus musculus

<400> 1162

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttaacaaaat | ggactaatcg | atcccgtnga | taganctggn | cagatcttaa | gccaattctn | 60 |
| gtacccttgt | caccccnac | atgggacatt | aagagaagca | tggggccngc | atcattnaac | 120 |
| gcgcnaagc | caactgncag | cacacaaact | actgaggatg | canggctgct | tgacctccac | 180 |
| tagatgggcc | ctctgtgcct | tcactccntg | aggcttgggg | acagagaatc | cccccttccc | 240 |
| ttctntgnag | cacctcccc | acacacctgc | ctacatcatg | gaactgcctt | aggccgacat | 300 |
| cattctatgc | ttacgccaca | aacagacccc | caagactgna | ggaagaaacc | aaacctttga | 360 |
| tgattgaacc | actcccctgt | gtaggngnca | ttggtgacat | aatantacac | gccttgggcc | 420 |
| gngcctctgg | ncatcaancc | actnccctac | aaaaggacaa | cacacactca | tttaaaaagt | 480 |
| gaggtgga | | | | | | 488 |

<210> 1163
<211> 179
<212> DNA
<213> Mus musculus

<400> 1163

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aaactggctg | tggggaaact | ctatgacatc | gatgtnnnca | aagtcaatac | cctnntagac | 60 |
| gcccnacgga | cagaagaacg | cggtatgttc | gctnggctcc | ctttatgang | ccctaaatgt | 120 |
| tgccaacaaa | catnggnntc | atctaancat | gattncagat | ggctaaactc | taaacttat | 179 |

<210> 1164
<211> 216
<212> DNA
<213> Mus musculus

<400> 1164

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgagaga | ctctaaaaca | acagacagca | ggccggtgga | agctctgact | gcagagggtg | 60 |
| catgctcctt | ctgaggnttg | ggagctgctc | atctatctga | ctttggcggn | gattacacgg | 120 |
| gtatgtacac | ttgtcaaact | tattactgta | catgcaaagg | aagtttagtt | cattacatgg | 180 |
| caaattatac | ctcaataaag | ttgactttat | cccat | | | 216 |

<210> 1165
<211> 337
<212> DNA
<213> Mus musculus

<400> 1165

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| caggaggtcc | tgcttggnac | acctgctgcc | nagagatgat | ctattgngaa | gtacttgatt | 60 |
| tgctcaaagt | aagntatcct | cattatgggc | caangccttt | gncatcaatg | tgcccnttgc | 120 |
| tttgnatgct | gatacantgt | ngacntatc | tggtattctaa | tgacaagtgt | nccaaacagt | 180 |
| atcatcctgn | atgnacaact | atcgganaaa | cttattgccca | tnaangtact | ttctgcaang | 240 |
| cactganact | tggtacaatg | ccttcctctc | tattatggaa | caaaatcact | ttcatccngg | 300 |
| ccttggtggn | ccccctttac | tatggaacta | cttttgc | | | 337 |

<210> 1166
<211> 152
<212> DNA
<213> Mus musculus

<400> 1166

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| ctgcaaagg | ctgggtaaa | gncctgtctt | ngaagtnchna | gtnagatcna | caccctgggtg | 60 |
| gtcacaaactc | ctaataa | ctgtncctttt | ggagtgctga | agacagctca | gtgtcttaca | 120 |
| tataataaat | aataaatctt | taaaaaaaaa | aa | | | 152 |

<210> 1167
 <211> 117
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1167 | | | | | | |
| gacaaataaa | aacaagcnag | ncagattaag | gncagcctgg | cctacnttag | agaaacctca | 60 |
| ttttgggaaa | gtgaaatact | ttgtcaatta | acatgcagtt | ggttcaataa | agacttt | 117 |

<210> 1168
 <211> 200
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1168 | | | | | | |
| actgagggac | cagagggtgaa | gatgacttca | gttatgcaga | tctacttcac | gaatagggat | 60 |
| cttcttgatg | ttcccaaact | ccccttgggc | ctgaaaaggc | ctaggtttct | cttttcccaa | 120 |
| gttaaggatg | gcggcctcgg | gccttacctc | ctgttacctt | gttaccttta | aaataaagg | 180 |
| gccaggaaa | gagaaaaaaa | | | | | 200 |

<210> 1169
 <211> 102
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1169 | | | | | | |
| cccgttttaa | acccactna | agnccggttg | gtctggggta | nancctgggc | ancannccat | 60 |
| aattacttnt | tgnggaactc | tcaaaggctg | gacaggcaat | ta | | 102 |

<210> 1170
 <211> 125
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1170 | | | | | | |
| aggaccaca | caacagaaaa | gaaccaactc | ctgaaagttg | tctcttgact | tctactcata | 60 |
| tactgtgacc | tgcatgggca | cgcatgtctg | tataccgtgt | acacacacat | acaaaataaa | 120 |
| taaaa | | | | | | 125 |

<210> 1171
 <211> 112
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1171 | | | | | | |
| gggtttttta | gggggggacc | actnattaaa | nttctctgag | gnagatcctg | ggcacaagge | 60 |
| cataattact | tcttgnggaa | ctctcaaagg | nccggacagg | aaccatgggt | gg | 112 |

<210> 1172
 <211> 217
 <212> DNA
 <213> Mus musculus

<400> 1172

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tttgacagat | cccaaccgtg | cccgettcnc | tctgenagag | ctgagggagg | cgctgctgga | 60 |
| acnnaacaaa | gcncaagncg | caactgctgc | tgggtgcaaag | aggaactgcn | gngctncaaa | 120 |
| gaagtggctc | acttccaccc | actnganact | ccagggaggg | aagananaat | aganggnatg | 180 |
| cctgntggnt | ncctntgggc | caacgagcga | gaaaggg | | | 217 |

<210> 1173
 <211> 111
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1173 | | | | | | |
| ccccgaagcc | aacagacatg | gtgcgaaaag | gcaaagacc | ccattantac | agacctactg | 60 |
| gnctgnctgc | aaatacngag | angtcctcct | nttatittcaa | aaagctctgc | t | 111 |

<210> 1174
 <211> 202
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1174 | | | | | | |
| atcgggcgat | atagittanga | cttccganga | cangtagatg | ctggggcgnc | gncctcctc | 60 |
| gcaatgcntn | ctcagccatt | gncgtgggga | atgggtttgt | ggtgctcnca | ggccggccat | 120 |
| gtnnncatcg | tcgagatntc | tactnacnaa | tactggcggn | catggccttn | ccaagngtcc | 180 |
| atctggttgg | cattgacgtt | tt | | | | 202 |

<210> 1175
 <211> 187
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1175 | | | | | | |
| aactgagtga | gctcgccctca | agctcttttg | ctgcagaaat | gcacggaaaa | tatgangagg | 60 |
| atcctgaaag | aattctcttg | cagagagcac | atcttgtttt | cgcccgccat | ttgttcgctg | 120 |
| tcgtcgtcgt | cactacctac | attccccgc | cgtgttcaca | tatgaaaaa | attatttctc | 180 |
| agttcag | | | | | | 187 |

<210> 1176
 <211> 403
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 1176 | | | | | | |
| atgatcagca | agctttgaat | tcaatcatgc | aagatttggc | tgtocttcat | aaggccagtc | 60 |
| ggccagcatt | atcttttaca | gaaaccagga | aagcaaaaacc | ttcatcacca | aaaaaacaga | 120 |
| atgatgttcg | agtcaaattt | gaacatagag | gagaaaaaag | gatcctgcag | gttactagac | 180 |
| cagttaaact | agaagacctg | agatctaagt | ncannatcgc | ctttggggcag | tctatggatc | 240 |
| tacactatac | caacaatgag | ttggtaattc | cgttaactac | ccaagatgac | ttggacaaaag | 300 |
| ctgtggaact | gctggatcgc | agtattcaca | tgaagaggct | tcagatatta | cttgtagtaa | 360 |
| atggggagtac | acaggctact | aatttagaac | catcacccgc | acc | | 403 |

<210> 1177
 <211> 405
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1177 | | | | | | |
| actgagggga | cctggctgac | acctggactt | ctcatcgctt | acctcctcag | ccagaggggc | 60 |
| caagctcaac | aagccttggg | ctctaaagac | tcccactcct | ggagagagac | tgagctgtac | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgaagccac | agctcctctc | tctgggatga | agttactaaa | ctccgatccc | agcttcaggc | 180 |
| tcaggctcag | gtgactgagg | cgctgaagca | ttctgtacag | agcctgttga | aggatcggga | 240 |
| gcaacatatg | ttcaagatca | gtgctctaga | agcatcacta | aaactgctgc | aggagggccc | 300 |
| caaagggaga | gcccttcttg | agcaatgcct | ggaagggctg | aaaaaggaac | tgcaaggcct | 360 |
| tcggagtcag | ggtcaagaac | tagtcccaaa | cccaatggaa | ggcag | | 405 |

<210> 1178
 <211> 590
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1178 | | | | | | |
| gtttcagcaa | ggtggtacca | nccccggagg | ctaagccgcg | tccttctctg | aacagaccca | 60 |
| aaaccccacc | tccagcccca | gtccctattc | ctgtgctgag | gagccctact | cccctgcagc | 120 |
| caccactcct | caccagggct | gcagtgtgcc | cagccctgat | gccatcccca | gctcccgccc | 180 |
| tctctggaat | agggagtgcc | aaagcccccg | tgaggagcgt | cgtgactgan | acggtcagca | 240 |
| cttatgtgat | ccgtgatgag | tggggcaatc | agatctggat | ctgtccaggg | tgcaacaagc | 300 |
| ctgatgacgg | gagcccgatg | attggctgtg | acgactgtga | cgattggtac | cactggccct | 360 |
| gtgtgggaat | catggctgct | cctccagaan | agatgcagtg | gttctgcccg | aagtgtgcca | 420 |
| acaagataaa | gaaagacaag | aagcacaaga | agaggaagca | ccgtgcgcac | tgacatcanc | 480 |
| gtgggcagga | ctgctgccct | gcnccggtgc | ggggctgggc | tggttctgcc | atcctgtctc | 540 |
| ccccgggccc | tgtggacttg | cancgcattc | canaggaaca | aggacaatat | | 590 |

<210> 1179
 <211> 412
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1179 | | | | | | |
| ttaccaatct | gaatggccac | accgctcgag | tcaactgcct | gcagtggata | cagtacagag | 60 |
| gatggctccc | cttccaatga | gctgggtgtc | ggaggatctg | acaatcgggt | gattcattgg | 120 |
| gaactagaga | ataatcaggt | tttaaaatca | gtccgtctcc | aaggccatga | aggacctgtt | 180 |
| tgtgctgtgc | acgctattta | ccagagtggg | ccatccgaag | gggagcagca | tgcgctgata | 240 |
| gcttctgcag | cttcagattc | tactgtgcga | atctggtcta | aaaaggggtc | tgaagtcaaa | 300 |
| taccttcaga | ccttgagctt | caaggatgga | ttcgttcttt | tctgtctgct | gctatttgcc | 360 |
| tggtactaat | ggtaaagtgc | ctgctattta | ttaaaagaac | gcataaagtt | ag | 412 |

<210> 1180
 <211> 164
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1180 | | | | | | |
| agcctgggca | cgaggccatn | nntnctntn | ggggaactat | caaaggnnnn | ncaggaagca | 60 |
| tggtctgagtn | catatatgan | ctgaaacaaa | gnatggcogn | gctggagatn | catcgtgtgc | 120 |
| tccggcagac | aggccagcct | gaggacgacc | aggcgtccac | aaaa | | 164 |

<210> 1181
 <211> 418
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1181 | | | | | | |
| cacctggcct | ccctgaaggg | gtgtctactg | gaatggctac | tatgcagttc | ttacatagtg | 60 |
| gtgacttacc | actggccacc | ctgacctctc | ctctgtgctt | ctgggggttc | ctttcattgg | 120 |
| ggtgaggaan | caaggncagg | gtcanagtgc | ctcttgaagg | ttctcccana | tatgggaact | 180 |
| ggggcctctt | ccctggaaat | gagggcaggg | acccagttcc | atcctggggg | gtgtcccag | 240 |
| atacagcctg | ggttaaaggg | cagggtattca | tggtgctgac | ccaggctctc | tgagaaggcc | 300 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgtcattcc | tgtttgtgat | gttctgagga | tgcccatctg | taggttttta | ttttnaaanc | 360 |
| aagnctccnn | ccaccggcca | ttttgcccac | tgctttntat | tttggtttta | tcctaaca | 418 |

<210> 1182
 <211> 390
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1182 | | | | | | |
| gtgtgcttgt | caatgtccca | gacatgaacc | agcccaggcc | ccgctacgtg | gtagacaaga | 60 |
| gctgcgtact | ccctctccct | cttcgatgat | gagtttgaga | agaaggaccg | tgccatcccg | 120 |
| gtgggagaga | agcttcgcaa | cactttcagg | tgctcctcag | ccaagttcaa | agcctttgtg | 180 |
| tttgggctgt | tgctgtgtct | ctcctggctc | cctaaaataca | agatcaaaga | ctacatcata | 240 |
| cncnannagn | tgnnnnnact | nagtgggggg | tgtatccagg | tgccacaagg | catggcattt | 300 |
| gcattgctgg | ccaaccttcc | tgctgtcaac | ggtctctact | cctccttctt | ccccctcctg | 360 |
| acctatttct | tcttacgggg | tatggcagct | | | | 390 |

<210> 1183
 <211> 435
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 1183 | | | | | | |
| actgagagtg | aggatccatg | acctccgcag | cgataagatc | gccctgtcgc | tgtctgcca | 60 |
| tcaanctggg | ggtgtccgca | gtccagatgg | atgactggaa | ggttgctcagt | ggaggcaagg | 120 |
| aggggctggg | gtctgtgtgg | gattaccgca | tgaaccagaa | gctgtgggaa | gtgcaactcca | 180 |
| ggcaccctgt | gcgctatctc | tccttcaata | gacacagcct | catcactgnc | aacnggccct | 240 |
| acnanaaggn | gctgngaaac | tccgacctcc | acaactttgc | ctgtcacagg | agacatngtg | 300 |
| gnetgatcca | tgccatagaa | tttgctgngg | accagctggn | ctttcagagc | ccccctcctg | 360 |
| tctgccgctt | accccgtagc | atcatggctg | gatacaagct | atgacctcgc | actgtctttt | 420 |
| ccccatgaaa | agata | | | | | 435 |

<210> 1184
 <211> 304
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1184 | | | | | | |
| gaggtctggg | gagtttcaaa | ggacatgctc | tccttgggag | tttctttctt | ncntggggct | 60 |
| tttgggggac | tatgaagaac | atcctgaaat | ctgtctacaa | aaggcaaact | cgaacctgct | 120 |
| accttaactc | taaaacatta | ttaccgtcgg | acagagattt | gggaaggagt | tgtngtgctt | 180 |
| ttaatgncnc | tcactggnat | agcnggtgaa | cagtttatct | caggaggacc | tgctttgatc | 240 |
| ttgcataaag | atggccagng | gaaccagatc | ctgggctggc | atcacacaac | catgtactta | 300 |
| ttgg | | | | | | 304 |

<210> 1185
 <211> 135
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1185 | | | | | | |
| tcaacaagat | gcacangctg | atgtctaant | nattgctgtc | ttnatcatan | caacntggtc | 60 |
| nacantagtt | acttaggacc | ncaggntgtt | tataaattan | cttacaataa | acaacttaca | 120 |
| atgagaaaaa | caaaa | | | | | 135 |

<210> 1186
 <211> 640
 <212> DNA

<213> Mus musculus

<400> 1186

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aggctccctt | atggaactta | agacagtcca | ggcagngcac | gtccctgnga | ggtcgtccat | 60 |
| gtcccagaaa | gagcagccga | ttcctggatt | gcgagagtc | tgtgcacgta | tttatgagcc | 120 |
| tgtcccccac | gaaagcagta | atccttcagg | ccaagccatc | caattttaaa | ccccgtgcc | 180 |
| ttgttcatgt | tgggtatata | gagactcaga | ggcgctagtt | aatggccagc | ctgacctgtc | 240 |
| ttccttgtgt | ttcggggggg | gaaaggaggt | tccaggagaa | taatgccctg | gaatattctg | 300 |
| aggctgaaat | gttgngtctc | ggatagacag | agtacttctc | cgtgggtcct | cctgcacaga | 360 |
| agcccccttc | tgtctgtgtg | tcaatcactg | ggtagttttt | ttgttatgtc | tgnttctgtt | 420 |
| gttctctttt | ttctgggttg | atcttaatct | ttggaaatac | acagtgtctg | tcaggtttgc | 480 |
| ctgggttccc | tgtgtgacct | tccccccac | acacacacaa | agttaaccag | ctgactggga | 540 |
| gcaatgctcg | nggaatgggc | cagtcacttg | aaagacagac | cttcaagcca | gcaatgggca | 600 |
| actggagcga | gcacttaaa | cgcacctttg | atcttccctt | | | 640 |

<210> 1187

<211> 469

<212> DNA

<213> Mus musculus

<400> 1187

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| aactctgtta | tggatccaac | aacnacacn | ttctaattgt | taccgcagca | cacagcccan | 60 |
| caaccacagg | gtggtggaag | ccaatttctt | gaacgtcccg | gatatgtact | cttcgtacca | 120 |
| cctttaccta | aaaaacatgc | agaaggagat | tctacaacct | aagaaacaga | agaaaaaaa | 180 |
| gaagaaccgg | cacttttgga | gcoggaaatg | acacactggc | cccagggtc | acctgcccc | 240 |
| ttgtctaagg | aatcctggaa | tgtgggtctc | cttgtgtgct | tcagcgagtc | tctgattaac | 300 |
| ccagagggag | ttctcctccg | agagaagaag | tggagctacg | ttagccagaa | gagaaaggga | 360 |
| tgtgggtgag | agggaaaaga | cttcgacgga | cgtgcaaaga | aatcaagcct | ttcataattc | 420 |
| cctgtcaatc | attcacctaa | agntgggggtc | cacagatgca | gctcatggg | | 469 |

<210> 1188

<211> 418

<212> DNA

<213> Mus musculus

<400> 1188

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ctggacagac | gcctgcccc | acaaagaant | tgaaaagtag | aaatcctatg | acatgccatc | 60 |
| tctgcttttg | taccocagaag | agagcttgag | cctctccatg | gottccaacg | cttcggagag | 120 |
| tccagggtca | ttctgagagc | actccttgga | gttctttctg | ctggngancc | ttnttgttgt | 180 |
| aaagaactca | cagnacgtta | tccaatccct | gtngcccato | aaaaaccgtc | tgtgcctnat | 240 |
| ctttctttga | cnetgantga | agaaccagga | tctgatgact | tctttccgta | gtttgaagag | 300 |
| aacaactttt | gagagtttgt | notctcctat | tctgtgngac | ccagggatga | cactccaacc | 360 |
| atcangcttg | atagccgggc | accaaggtaa | cttnttgagc | cacctgggt | ggggcctt | 418 |

<210> 1189

<211> 447

<212> DNA

<213> Mus musculus

<400> 1189

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactaacctg | ttgtcaatg | ctagatacac | tatactgagg | aatctttgag | aagccaggaa | 60 |
| gaaaaataat | agaatgagaa | gacctgaaga | ctaaactgcc | ttttcattcg | ggcgttggt | 120 |
| gctagcta | tgactaaac | cacactggag | agcatatata | cattcatata | atgttcagag | 180 |
| ttgattgtgt | cttgtaaatg | tactttgtta | ggattaaatg | tcaggattct | gttcatacta | 240 |
| ggcaatttga | agaaaaagtg | tttagcactg | tttgcataaa | agaacaagga | gatgagcaag | 300 |
| atgaaagctg | gtttcaatgg | ggttatttta | agaaaccagc | tattttcaga | aatacatggt | 360 |
| gtttttttca | atgntataga | agctgngtaa | tttaacctaa | tcctttaacc | tcttgacc | 420 |
| catacaagtg | ataagaaggt | tttatg | | | | 447 |

<210> 1190
 <211> 181
 <212> DNA
 <213> Mus musculus

<400> 1190
 cccaacaggc tgggccacag ccaactgcac tacttgagca tgggtgggct ccagatctcc 60
 tccttcaaac tggagtgagc ggcacctnag aagaccttac ccccagaacc agcttnagcc 120
 agcccttcan caagcccca acagaaccgg agcctttang gtctggggat ttttccaag 180
 g 181

<210> 1191
 <211> 398
 <212> DNA
 <213> Mus musculus

<400> 1191
 gatacaaggc gacacnaata tgacngacaa agtatttgtg acctgcnata ccancgtcat 60
 gcatctanat ggaacggtgg aaggatggtt tgcaaagaat aaaacactca acttgggcaa 120
 aggcnnctcg gacccacgag gnataatatca agtgnantgg gacatagcac ntgncaaaag 180
 agatgtcnac tgtgcaagtc cnttaccgaa tnggccagaa ctgtgngnag ctgactngg 240
 gnaccatggc tgnrtgaatn ttcattgacc tnatcgnaac tctgctnctg gctttnggcg 300
 actactgctt tgcangacat gagaccggaa ggccttnttg ggcttggttaa ggtaaagcc 360
 ctgctgaana ttgagcagct gtatcagcct ctctcgaga 398

<210> 1192
 <211> 364
 <212> DNA
 <213> Mus musculus

<400> 1192
 gcaaaggaga ccaacaacaa gcaaaaagag tttgaagaga ctgcaaagac taccggtcag 60
 tcaattgagc agctggctgc ctaatgctga gcctttgctg agataacttg gacctgagtg 120
 acatgccaca tctaagccac gcatcccagc ttttccagcc agggcctcct agcaggatct 180
 tagagaagga gacagtggta ttttgaaact ggatatcaaa tatttttggg tttgctttaa 240
 agtggctacc tctctttggg tttgtggctt tgctctattg tgacgtggac ttaagcaata 300
 aggaagtgat gaagggacag tgttctctga caggacctgt ggggggtcggg gtgcctgtgc 360
 aagg 364

<210> 1193
 <211> 113
 <212> DNA
 <213> Mus musculus

<400> 1193
 cagactgagg tggggtcttt cagagagact tgatagcaca caccatggag gagctgtcgg 60
 ggctggagaa gaatgtgaga gcaccaaaaga atccacagc atcaaaaaaa aaa 113

<210> 1194
 <211> 346
 <212> DNA
 <213> Mus musculus

<400> 1194
 cagaactgac gatcaaaaaga tttgctgaac agtggactcc gagatcggtg nnacgaagct 60
 ctctctgccc ttcctgacca ggctgtcagg taattcctgt gctccctca ctggtcgaag 120
 tgattttcct tctcaacttag tctgcccaga ggctctgctt tctctgctca gtgtgcatct 180
 tanggtgggtg gttggcaagt gagcctggct gaggggaacac ataggggggtc ctgtctgtag 240

| | |
|---|-----|
| tacacagaca aacacaatca aaagtggggc aggagggaag gcagccctgc tacctttctg | 300 |
| gggaatatatt tgaaagggtt tggtaatat tggaatctgc ctgcag | 346 |

<210> 1195
 <211> 126
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1195 | |
| gactgagctc ccagcatccc aggaaaccta gaaccatgat gatagaccca actgcaatca | 60 |
| agatattcac agcaatgaag ggggttcgtgc tagagtctcc tgacgtgatg atctagaaaa | 120 |
| aaaaaa | 126 |

<210> 1196
 <211> 275
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1196 | |
| acagcctcat gtccgactgc tgggtgcttca tnttctgcaa ggaacacgtt agaagcaatc | 60 |
| ctntgtcacc acagcatgat ggggcctcaa gggaggaggc tgatcaccag gtggacgtgt | 120 |
| ctgatggcat caggctggtt ccagacaaaag cagaggccac ggctgctaca gcctcagntc | 180 |
| tcgggtccca ccagcaaagc ttctgtgtgc agcgcgcaag gcagttaccg cagaacctca | 240 |
| tgagtggaga gtcagcccg cagctgagac atctg | 275 |

<210> 1197
 <211> 401
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1197 | |
| gaactgagag cctcaccaga aacttctgcg tcagctctca ggtgcatcct gggctaattgg | 60 |
| caactcgtgc tccattccca actcatgggg acaactcagg cagtgtctggc tggggcctca | 120 |
| tgtggggcct tcttcagaca ggaccctcca cccagtgca gcccaagcag caagaccaca | 180 |
| ttaacccttc tcaagtactt ttatttcaca cctcctgtgg ggcttccttg tctccaggac | 240 |
| tgggtagagc ctgagaagag agccagcctc taaagaacct aggtgtcac cggatgcaat | 300 |
| gattgttcct aaaggttcca agtccttggc tccgtgcatt tcacaggcac agtgggcaga | 360 |
| gctgtaagct acattcaggc ttccctggca ctcagggact t | 401 |

<210> 1198
 <211> 221
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1198 | |
| ttgagcttct ttgttgagac tccataaaga gaaatgcacc aagaaacttc tgggtggtgtg | 60 |
| ctgaggcttc ttgccacttc tgcagactca ggctgattgt tagatgatgt cggctgaggc | 120 |
| atgacccatg gaggacccat gatgtttgaa aaaggactca atggacaata aaagaggctg | 180 |
| ggcttggtct gctggtacag ttaactgttc aaaaaaaaaa a | 221 |

<210> 1199
 <211> 200
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1199 | |
| aagcctgagg atgctgacct gggaccagaa tggccagtgc ccagtaatct gaagtttata | 60 |
| gctaccaggg gcgaggatga gggcaggatt ccagcgccct ctacgagcag ggccatcana | 120 |

aagaagaggc ggcggcatct gctcacacac aacttcaggt aactagtgat acaacaataa 180
acgtaaacgg cttaaaaaaa 200

<210> 1200
<211> 377
<212> DNA
<213> Mus musculus

<400> 1200
gaggtgtcat gctaaccttt gggaantttg atgtggagcc tgacacgtac tgccgatatg 60
actntgtnag tgtgtttaac gganctgnga gtgacgactc tgngangctg gggaaatttt 120
gcgagacaaa ggcccctagc cccatctntt ctgaanggaa cgagctcctg ggacacntng 180
tatcggatct natntgtnac cgcaaanggn ttgtnancct cctacaggac cctgccacgg 240
gattgccgna gagaaggagt cntncctgag tncaggggag gacgtacagc tntggtcccc 300
ctgccgcgtc ttacctnag tncaggaact ggccctann ttctcaacct gcccnctaaa 360
ccttatattc ccaacct 377

<210> 1201
<211> 323
<212> DNA
<213> Mus musculus

<400> 1201
aaggaacaga accgatgtgt cctgtgaatc cattgnccct ngnaacaaca ggagggnaan 60
tccctcctga aacagancca ccggaccac cggtgactc cagcaccaca ttctgaaan 120
gaatctnnta tgtgaatatc agganggact ttttactccc tgagggactt gangttgnaa 180
nncgntctt gcttanctgt anaaatggac tgggatannng gctctagggg nggactgttt 240
acacacttca ggaatctagg ggnacctgtt cntgctaaa agaggctatt cngaactttg 300
gggcttggag tgccttgctg cga 323

<210> 1202
<211> 224
<212> DNA
<213> Mus musculus

<400> 1202
gccagaaga ccatggttgn gagcagatgt gctggaacat gctgggttcc tttgnetgcc 60
agtntacng ngntacacc ttgnetgang acgggaagcg atgtaccgct gcggactact 120
gtgcctcaga aaatcatgga tgtgaacacg agtgtgtaaa tgctgaaagt tcctacctgt 180
gccggtgccg cgagggtatt gctcttaaca gcgaaaaaaa aaaa 224

<210> 1203
<211> 207
<212> DNA
<213> Mus musculus

<400> 1203
ggaaaaccaa tgttgaaaaa atatcatagt ttgnccaact gatggagaac tggaaaatac 60
tctttttcat caagtttttc agttcacccc gttttgttca tagtatgtaa gaatggacat 120
cggttttgat gatacatgct gtctgtcata atgtataata tttaatgatt gaaattaact 180
gtttggggat cctgacgctg aagtgtg 207

<210> 1204
<211> 298
<212> DNA
<213> Mus musculus

<400> 1204

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| agactgaggt | gggggtctttc | nacacgcntg | cgcgaggccc | gncgncagga | atttgacacg | 60 |
| ttcatcgnt | ccnogaagac | ctttcacacg | catgagtcca | tcgcantccc | cgatcatcgag | 120 |
| gaggacgggg | agagtgactc | ggactcggaa | gatgccgata | tggaagatnc | tgnccttgant | 180 |
| gaagngtgcg | cgtncttttg | tccgcgtggg | ggcgcgntcc | ttgagnntgg | ccccggcnga | 240 |
| acctggtntg | cctttttgnc | ttatacccca | tnctctgttt | gctttccgaa | gacaagag | 298 |

<210> 1205
 <211> 109
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ctgaggtctc | ctatgctcag | tcaactctcc | taactgtaaa | tcaacactaa | gagcactaga | 60 |
| agggttaaagg | tcaaggagac | tctcaciaag | gatccaggat | tctccttgt | | 109 |

<210> 1206
 <211> 342
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| aactgaggcc | cagagaacac | tgaagacata | catccccagt | gaagggcatc | attacctaca | 60 |
| aaggcggact | gtggaccata | cgacgagaga | agcccatcat | catggatgtg | tcccatcatt | 120 |
| tctatggcag | tcccaggatc | tcactcttct | tgatgctcta | ctgttttgatt | gttcatcggt | 180 |
| cacatacaga | aatgacgctg | gtttcctgtg | ttgacottgc | accctgctac | tgtcatcact | 240 |
| ggcctggaag | tcagcagtat | agataaggct | ggcctgaat | tcaaganact | cacctgtttt | 300 |
| tgcctactca | gagttactgg | aattaaaggc | ataacaacac | ta | | 342 |

<210> 1207
 <211> 137
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| aactgaggca | aatgaccatg | gaaacagttg | aatcacaagc | aggatcgaag | tgtaacacag | 60 |
| ttctgtggca | gagcatagct | ctgctcatat | gcagactggg | caaattttctg | ttcctactct | 120 |
| agctcaggta | ggccata | | | | | 137 |

<210> 1208
 <211> 429
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| gagaaagcgg | cgtaccgcct | tctgtatcac | ggatgcagcc | ctgtntctgct | ggagccanca | 60 |
| tgcntgagct | tcacgtcnag | tgcttaagat | cttgtgnnnn | ncccnagcaa | agatnggact | 120 |
| cgaacacanc | nganatnanc | ttatcatact | tnaagagagc | agnatggcag | gatnacttcn | 180 |
| gaggagcaca | tgccttttaa | cagtgccacc | gcannatacn | gtgaaagcta | cgcctctgga | 240 |
| nccgtgngcn | gcaagtaaag | agactcaccg | gggacattcg | ttattttctga | acgcatntta | 300 |
| tacacacatt | cccagcttaa | tcacttttag | aactttaaca | tgaaccagag | tcaaagtctc | 360 |
| ttgagagaga | gaaaganccn | gagagacttc | tttttttgaa | ggnnnnataaa | aagcttttaa | 420 |
| actcattgg | | | | | | 429 |

<210> 1209
 <211> 190
 <212> DNA
 <213> Mus musculus

<400> 1209
acttcaagtt tgggaaaatn nttggngagg gctctttttc aacaaaagag tatgagcctn 60
tgntgctggt gcttggtgag cacagggttc tcttgggata atagactact gagaacacct 120
gactaggcaa tggtttccct gtgcccctgt ggttggtctgc tgctgngcat tgccactaga 180
gtcttgggaa 190

<210> 1210
<211> 260
<212> DNA
<213> Mus musculus

<400> 1210
gaccacaaga ttgcagtatt ttacgttgct gaaggacaaa gaagataaat actccattct 60
caccaatata ggaggaagcc aagcatatga agattttgta gctggccttg gttgggaggt 120
aaaccttaca aaccactgng gcttcatggg aggccttcag aagacagaag cactggactg 180
accactccct attttgctac ctgcacagta gaagtaatat ttcattgtatc tacacgaatg 240
ccttctgatt ctgatgactc 260

<210> 1211
<211> 168
<212> DNA
<213> Mus musculus

<400> 1211
caccaccacc accgtctcca ccangtggca gaccccgccg cccagagacc agaggangac 60
tnctggacgt cagataatga ggagcaggag gaccnactn gataactgca naggngnta 120
tnatccacac gaaaattgga gatntcttnc atggtcagac ctcatgtc 168

<210> 1212
<211> 120
<212> DNA
<213> Mus musculus

<400> 1212
tgtgccagct ccacagccag cggcccagaga gagangttat nattgccccg gaagtcaact 60
gaaangaact ggcccccttg annnttcccn aanacctgg caccacttt ccagcccga 120

<210> 1213
<211> 321
<212> DNA
<213> Mus musculus

<400> 1213
aaaaaacagt tccgttgccc nntgtgtgan aagatattca tgaggagtg acttntctca 60
ccaagcatgc cgggggtcaa ccgagttntt cccagntnqn atcaaaaaga tcaaaaaggg 120
gtttttgccc cccctttgng gggngctccc catggcacc aggcaaanat ggntccccgg 180
aaggaaanan ntcccaggaa aaangantga cncntggaaa ttgccccaa aaaaggcccc 240
ctggccaaag naggncactt gttttttggc caaatattcn gatattctcc tgcentgttc 300
caaaaaagca cattggtccc c 321

<210> 1214
<211> 247
<212> DNA
<213> Mus musculus

<400> 1214
gttttttttt tttttttaag gggggggggg ttaaaacact accttgctcc ttgctnchnat 60
ggnaattcac ggncttgoca atatanttgn tgntgngncc ccnagtgcen tccgaganaa 120

| | |
|---|-----|
| tgacatnaag agcttctttg gtcgcaaagt ggccatngat gcntncatga acattctacc | 180 |
| aatttcctga ttgtgttcn tcaggggggg gatgngctgc aaancnaggn gggtgaaacc | 240 |
| accaccc | 247 |

<210> 1215
 <211> 171
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1215 | |
| ccaaggatca tgcacatgt nctattgacc caagagttgg ggnngtggn ggntccna | 60 |
| angggctgtg tgttctgcaa gaantnggag ccngcttoca aggaggatgn ggnctggaa | 120 |
| ngggacttnc ggagccaaac ggtgangaa cgctattacc ctgacccac t | 171 |

<210> 1216
 <211> 335
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1216 | |
| cactgaggct agggangna agaggtggg cgatgtgnt ggagcccagg cctacgcctc | 60 |
| cactgccaaag ngcctgaata tcagctccct gatcttcagc atccttatgg tcattatctg | 120 |
| catcattatt ttctctacca cctctgtggt agtctttcag tcttttgac aaagaacacc | 180 |
| ccattctgga ttctagctgc cctgtgctcc acggtccaca tctgccccgc cctgccccg | 240 |
| ccccaggct caagcctga ccctttacc tacgctatg caaatgttac cttcacctat | 300 |
| ctgtccacag nggattcaat aaagtgcacg gggtc | 335 |

<210> 1217
 <211> 312
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1217 | |
| ctactgctca aacaaggnaa gctngaccga accaaaanac gatttcaaga cantgctcaa | 60 |
| atctaaccac ancgncagg aggagaagga agccgagtct cacttgnaaa anctgaccag | 120 |
| atgcagcggc tgcgctccca aacgctcgac ncctttgacg gngccgaata cactgctgct | 180 |
| ataacccttc cttgataana atttaaaagt ttggnntttg ggatgcanaa ctgcctgaac | 240 |
| tgggaagcag aatgcttntn aaaggaagga agagcccagg aaaaccntna accgacttaa | 300 |
| aaggctggtt tc | 312 |

<210> 1218
 <211> 412
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1218 | |
| acagtacagat gggtctcttcn ctctccctgg cctggaccag ctccctgctg ctgntgctgg | 60 |
| gaggcatcct gctctgtgtc nacatccnag tatgcagaga ctttccccgt tgcattgaga | 120 |
| cccctagngc tagacctca ggagccaaca acgatacctt anatgtttga tggccagcac | 180 |
| actcacgtct ggaggggaaa acttnotcaa gaggcctctc tccaggttct agaactcattg | 240 |
| aactggaggg aggaaagaca ggtctacgga gctgcccaca agctgtgtag tggactctgg | 300 |
| atgcggttag ctgtgtcagc accatgctga ggtgggcttc ttggtgctga agctgccnag | 360 |
| ncttctaata taagggaacc caataaagtc attgttcccc taacaaaaaa aa | 412 |

<210> 1219
 <211> 389
 <212> DNA
 <213> Mus musculus

<400> 1219
ggaagtgaca gcgagtagca agtggacacg aacacccaga aagcccactc ctttgtcaac 60
cattacatca gtgaccccac atattacaac tcttggcggc gccaacagaa aggcattctt 120
cgggcccagg cctacagota cacagagagt gattccggcg aacctgacca cgtcactgtc 180
cccaacagca acagcaccca gcaaggcagc ctcttcgggc ccaaggccag cgggactcca 240
acgccccaaa acccccggaa tcccagagt cagcagagca ccctctaccg tccccccagc 300
agcctcgccc ctggctctcg ggcaaccata gctgggttct catccttcgt ttgacatcaa 360
aagaggagaa agaatgggga gaaaaaaga 389

<210> 1220
<211> 272
<212> DNA
<213> Mus musculus

<400> 1220
gaaggacaca tgccgagtnq gatggcngan actccctgag caattatnat ganngccgag 60
ggggcccagag caacntttac agtgggtcct ctgccancat taaggccgct tatttcnnc 120
ggttaccgcc ctaatctcnn ggatcganct tcnanatgcc ncgggggccc nggaccatcc 180
tgggctacta accttgacgg acctgnangc ncnanangat agtttggtga tgcattcaat 240
agtatatgcc ntccgtgaca gtccttatct cg 272

<210> 1221
<211> 156
<212> DNA
<213> Mus musculus

<400> 1221
gcttgctgct cgagatgtga gtcttcagat gttcctgccc ccatatctga cagctgctgc 60
caagattccc tgggtggatg gactcttata cctcaacaac cagaagcccc agtaaaactt 120
tctataaatt gaatgactca tgcttaaaaa aaaaaa 156

<210> 1222
<211> 433
<212> DNA
<213> Mus musculus

<400> 1222
gaattgggag cccccaggct gtgaaaaact aggggaagtgt ctgacacctn ctgagtctgt 60
ccctgagaag ngtttctggg ccatttagcc aagaccagaa tctccagcca gccctgcaag 120
tgccctggag acctgttcct tcggactgat gaatggaaga gaccagntgc cctctgcccc 180
cccatccctg catggacggc ccctgcaacc aggtgcaagg ctccaagact gctcatcctg 240
gagccctgac cctgtagtcc gctctcgagc accacagccc atcttgccaa ctgggttcctg 300
aaaagggaagc cggggccttg atcacgctag gtacgccagc ccagggtctg aagcaactgtc 360
actgtccctg catacatttc aacctangtg ccgtacacaa aagtgaagat ttcagcgaaa 420
tgccaaggaa gtg 433

<210> 1223
<211> 216
<212> DNA
<213> Mus musculus

<400> 1223
ggatccagac ttgccttata aattcttgaa ggcaaagaag gattgaaaca accaccagag 60
atgtctgagc cacttggtga gaatgaaaaa cagcgtatgt acagtaagct tgcacacaga 120
aggaggcccg gtgactactt tcgggtttaa ttttgatac aactttctat tcagtatgta 180
atgaataata aagaaaactt tgtcctgtaa aaaaaa 216

<210> 1224

<211> 270
 <212> DNA
 <213> Mus musculus

<400> 1224
 gagcctggac ctggctgtgg ccctagagcc caacgcctcc ttactgaana angccttgca 60
 agcagcgctn agacatgtga cccactgacc atacacaagg acacaccgac ctgactgctt 120
 gtctcataac acacagccat ctcaggagtn anctgcctnt gcccaacacc ccatgctctg 180
 caggggccat attgactnca caaggagcag anaggaggcc ttgggtacca ctntgacaa 240
 catcangata caggggctgt ggaggatgag 270

<210> 1225
 <211> 474
 <212> DNA
 <213> Mus musculus

<400> 1225
 ggcagctgat ggcaccggag ccgctagaga agctcggctt tagagaocta atggaaggga 60
 agccagaggc aaaggatgaa tgttgagaag ggagccacag gaccttgtec ccagcctgga 120
 gcagagctga gcccttctgc ccacagtga gggggacctg acactcagcc cgtgctgccc 180
 cgtgcagggg ctctccctgg ggactttaga acatggctca cccctgcagc acacaccgaa 240
 atgtttcctc tgttgacctc ggttccccctc tagagagtgt gtttttcttc cgtctgtgtg 300
 tcacaggacc cgtcaggact gaaccctgct gtgatttgat atcccgcaca gactggctgt 360
 cacaccacag agccctggcc agcattccac agcgactcan cctgtcacag atctgagtec 420
 tnacactgga acctgtaatg aaaccaancg acaggaaaat gtccgctttt ggct 474

<210> 1226
 <211> 266
 <212> DNA
 <213> Mus musculus

<400> 1226
 gacacacaga gaacagggtg gtgcccatta gacagaagag atttgggtcat cacgctcctg 60
 ggagacagac agaagacttg aagttcanca atccccctgc ctctgcaagc cccatctatc 120
 ctaacactgt acccctgtggc tgtgatctga ggatgacaag atccgagaca tccttgggca 180
 gcttcacact gagatagaaa taaaccctaaa tgaactatga aatggggcca taaataaagc 240
 ctggaattga attctaaaaa aaaaaa 266

<210> 1227
 <211> 342
 <212> DNA
 <213> Mus musculus

<400> 1227
 gcaagcccgg cacgtccgag cagcacgaga agcgtnccatt gacaggaccg gagaaggctt 60
 ccatggactc tgacactgta aagttgggtca agccccacaa agaggccatg gtcgcccagc 120
 tggatgcggg cccagggatg ctcgaaccct gtgtgctgcc ctcagccaag gaaagatctc 180
 ctgtgcgtga tcaagagagc cgttcgaatc gtgacagccg tgacagccgt tctctgatga 240
 ccctagttca ctcagtctct atgttcatgt tctccatgct acagtccggc tggcgactat 300
 gtaggtggaa gtgntnaatn anngctggct catacttcta cc 342

<210> 1228
 <211> 199
 <212> DNA
 <213> Mus musculus

<400> 1228
 acaaaagccac ccaccctctg acttctatctt actttacaat gatgttagcc cccccccctt 60

| | |
|--|-----|
| ncagaatnag nnaaatgggg gnttngggtn aaagaacnngn angannggag tctggacgat | 120 |
| cagcnntccc tgcaggtgaa gaagactcat gaactcacca atcctggant tgccgaagtc | 180 |
| accatgcggc cagaccaca | 199 |

<210> 1229
 <211> 380
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1229 | |
| ctccttcacg ggtcttccat cccctccnc ttgcccgcg ggtactcctc tctaaagncg | 60 |
| cctgtaccgg ctggggttcc caagggtaac agtaaccctc tcagtcaata gncagcgnaa | 120 |
| cagnaagtcc ctcaatggtg ggagnatgna gnactcccat cctanccttg gcctctcagg | 180 |
| naagtaaaaa ctggnatcca gcaccagggn aattagctcc gaccacccc ttgttcttcc | 240 |
| gatgctgtgt ctacggnaact tggccacagc aggcctgtgg gtggattcct ggtgctacca | 300 |
| cctgccgnac caaaagccgg atcaagggat tggaaacttg ttgccattct cancaggccg | 360 |
| anaccgtgga ggctgtttga | 380 |

<210> 1230
 <211> 243
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1230 | |
| cagattcctt agggagcatt tgctccata tgaataagtn taccatnacn gtgnaagcc | 60 |
| naattacagg acacattaaa ggaatgctgc ttactggctg gctttctgct tctgctcctc | 120 |
| ttgcctgtac agnctaagnc cgaatgccat ggtggaactg ccatggtggn cttggccctc | 180 |
| ctnaccaatt aatantaaca gttattagta gtattataat gaacacccca taaacatgcc | 240 |
| cat | 243 |

<210> 1231
 <211> 193
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1231 | |
| cgtggctgct gaccagncc ncaggcttct aaactggcgg gccctggaga gattcggcca | 60 |
| cttganctag ctganagctg tgnacatggc cctgtatggt gcggaacaag angactgggn | 120 |
| aatgcctctc acatggccnc gggcnnatnc ntacacatnc tggaaggaaa cttgctcaaa | 180 |
| actagtggac cct | 193 |

<210> 1232
 <211> 152
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1232 | |
| gcttagagca cgacctaaan aactacttct aaacaggtcc acacacgccc ttgncctagt | 60 |
| accggtatct ctccnctacg ctctgntggn gctctanaag ggagatngnt gcattnaaga | 120 |
| accccaata aaataggctt tgaaaaatca aa | 152 |

<210> 1233
 <211> 492
 <212> DNA
 <213> Mus musculus

| | |
|---|----|
| <400> 1233 | |
| acactgagac ttttcagaaa agaagatgga ccagcctagt gggagaagtt tcatgcaagt | 60 |

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| atttgtgtgaa | aaatacacgtc | ctgaaaaactt | cccttaaccgc | cgtggccctg | gggtgggagt | 120 |
| ccatgtccca | gccactcccc | agggctcgcc | tatgaaagat | cgcctcaacc | tcccagagcg | 180 |
| gctcgtgttg | aacagctgcg | gcattacctg | cgcgggagat | gaaagagaaa | tgcgagcctt | 240 |
| ctgtgctcac | gtgtcaaaaa | ctcgatcttt | ctgacaacaa | gtcccaaaac | tggcatgagg | 300 |
| tcagtaagat | tgngtcaaat | gntcctcaac | tggagtttct | aaacctgagt | tccaatcctc | 360 |
| tgagtctgtc | anttctanaa | aaaaaatggc | tgggtccttn | tntgggggtc | gcaaacttgt | 420 |
| cctnaacaac | agnaaaangca | ttatgggaaa | cagtgcacac | catactgcag | gagttgccaa | 480 |
| agttggagga | ct | | | | | 492 |

<210> 1234
 <211> 456
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| <400> 1234 | | | | | | |
| cactgaggaa | agagtgggtca | cctggaatttt | tgtgacaaaag | aaatacatct | atgggaaccg | 60 |
| ttatgagaat | cgagtggagag | tatctaaccga | tgtgtgagttg | tcaaatgcct | ctatcaaccat | 120 |
| cgaccagctg | accatggacg | acaatggcac | ctacgagtg | tccgtgtcac | tgatgtogga | 180 |
| ccaggatgtc | aacgccaagt | ctcgagtcg | cctcttgggtc | cttgaggatt | tcaaacaaat | 240 |
| ggcaagaatc | ggtgtaaatc | tgaaacctga | ttctgctggt | cctccaacca | aactccggcc | 300 |
| cgtacatcaa | ggaccaccta | cttttaaaaga | caatcagatt | aaccogaaga | gttaaggcta | 360 |
| cacgtttaat | atganaagta | tnggaattcg | ttgaaactaa | cctcttgctt | taaaaaaat | 420 |
| tacatgttaa | taaaccacgc | aatattcttt | gtgggg | | | 456 |

<210> 1235
 <211> 162
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 1235 | | | | | | |
| gactgagtga | ggaaaacatt | tggaaagctct | gtgagtacat | caagacacac | aaccagtatc | 60 |
| tggttgagga | gtgctatgca | gtcttcatat | caaagtggaa | gaagatggta | cctatattgga | 120 |
| aacagcaggc | aagacctgag | aatggacctg | tgatctggga | at | | 162 |

<210> 1236
 <211> 406
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1236 | | | | | | |
| agactgagta | tttggaaatg | aaccttggac | tttaagaacg | cttggagtca | ttgaaccaca | 60 |
| cccaactcct | attctgacat | ttcactgcta | tccaggattt | acagaaaatg | ttagaaaaac | 120 |
| tctgcagcaa | tgttattttg | aaatttataa | agcctttaca | aaaatgtgaa | gaaagatgta | 180 |
| tatatatttg | gcattctgat | ctctactata | aattgcgaaa | tgattggatt | gagcttaagg | 240 |
| tattaaagct | tttaattaga | aaatttttaa | taaatgatgt | tctggatatg | tcatgcatgt | 300 |
| aactttggag | aaaaatgtca | actacgtgta | acacccctg | acttgccatt | atacctatta | 360 |
| tggattcaaa | ggaatttaat | acacctgnct | aggttaaaaa | aaaaaa | | 406 |

<210> 1237
 <211> 174
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1237 | | | | | | |
| aagtatttat | ttcatgtcta | tgcacgttct | gcccattgtc | acgtgcatgc | ctggtgctgg | 60 |
| aggatcanac | gaaggngttg | gatctggcgt | taaagagggt | tgcaagctcc | aggaatggan | 120 |
| cctggatctt | caggagaaac | agaaagagct | cttaaagaat | cccaaaaaaa | aaaa | 174 |

<210> 1238
 <211> 323
 <212> DNA
 <213> Mus musculus

<400> 1238
 gaagagtatt ccctcnnagc taggagactg tganaatcta gagagactgg actgntctg 60
 gaatctggac ctgatggatc tcccctttga attaaggnat ttgaagcaag ttacatttgt 120
 ggatatctct gcgaacaagt tctccagcgt tcctatctgt gtccctgcgga tgtgtcgcct 180
 gcagtggctg gatatcagca gcaacaatct gagtgacctg ccacaagata tanacaggnt 240
 gctacngnaa ttngnangcc tgctgtanta naacaatcng agctnctnnn naccagcctg 300
 cttacctttc tgaagccaag ctt 323

<210> 1239
 <211> 392
 <212> DNA
 <213> Mus musculus

<400> 1239
 cagtgtctact accttcagac taagcattca agcctatgag cccttggggc aattcttatt 60
 ccaaccacag cacatggtga gaaaggtaaa acaacaggaa cataagcagc tggtcacgtt 120
 tcttctacag tcaggaagca gaagatggat gaatagctgg tctcagggtg ttctctgata 180
 ctgcagcatc tcagtcaaac agatgcttcc aactgcaatc aacagacctn ctgaaatcaa 240
 ttttaattaat caagataaat tctacaaatc aacaaggagc ttgcaaatca natgattcta 300
 gaactgatgg tactaacaat ggagatacaa gaattacttc ttgatctttg tacatataaa 360
 acacagttaa ttaaaaaaatg taaaaaaaaa aa 392

<210> 1240
 <211> 164
 <212> DNA
 <213> Mus musculus

<400> 1240
 acgaggacca caaggcagaa aggagaaactg aagaatccaa agccccagtg tacacacatc 60
 tcttctgact cttccagcaa gacggccctg ttttccacta ttccaggatc agacngaggt 120
 canaggtcaa cttccaacc acttcctcat gtgcaccctg ccct 164

<210> 1241
 <211> 200
 <212> DNA
 <213> Mus musculus

<400> 1241
 cgagattatt gaggcgngna atcgngtgac gcttcccgtt ccttcataa tggtgtgggc 60
 atctntccaa natgaccctt gatcagnact cagagccnaa ctggagggna ganntgggct 120
 aanggccag gctgactgca ttacnctnc cttgannaga cttatacgtc atcantntan 180
 atataggaag agaaggcctt 200

<210> 1242
 <211> 220
 <212> DNA
 <213> Mus musculus

<400> 1242
 acatggcaca gccacctctg tataaatatt ggggccacac agctgcaaag gcatctcctg 60
 caggaggacc taattgagga ctgcttgaga ccaaggatta tttatgtaaa caatgtcagc 120
 caaactgctg ttttggggac caatggggca cgagtagagg gtattaaagg agcttgcagc 180
 agttcagatg agcgtgctgc tgaagtctca aaaaaaaaaa 220

<210> 1243
 <211> 150
 <212> DNA
 <213> Mus musculus

<400> 1243
 aaccagcata tgtgggagac ctgacaaccc ggccctgtgtg gaggtntcac aagccaacgc 60
 ccancacag gggaccnact gttcctggna ctggaangtg tnggatacgg ctcngtcttn 120
 tacaatgctg agagagggtg ttaatacccc 150

<210> 1244
 <211> 350
 <212> DNA
 <213> Mus musculus

<400> 1244
 cctcgtgatc tggacaagcc ctatgctctc cctgcattgt gggaccctga gtccatgcct 60
 gcgtctggaa tgctgttgga agcctgttgc tgcctttttg ttaccaagac tcagacagca 120
 tagaatctac tcagcatctc ctogccaca gcctcccttc cccaacatca cattagcctt 180
 gagttgtgat cgactggcag gagccctagc aggcctgaga atagcatctg tattatggta 240
 gaaagcccag aaatgaaccc tggggagagg ctctggagtt ggcctggaga aggagagagc 300
 attactatgt tgataagagg gaaacatgga agaccaaaca ggagacacag 350

<210> 1245
 <211> 248
 <212> DNA
 <213> Mus musculus

<400> 1245
 gactgagatg tgttttttaca aggcaaacag ttccataagg ccttggaag catactgtca 60
 ccccaggaga acctaacagg gggagaagag cccccccagt gtggctacat cgaaagcatc 120
 cagcatattc tgacagaagt cagtgggtgt caagctctgg agagtgccgt ccagcatgag 180
 gccttgaagt atgtagggct gctggactgt gtggctgtgt accggggcaa gctgcgtgag 240
 attgattg 248

<210> 1246
 <211> 341
 <212> DNA
 <213> Mus musculus

<400> 1246
 acggcaggaa atggagccat tgctttctct gcaaaaagng tgtgaagcct tcctggatcc 60
 attgtaacac ctgcaatcgc tgtgcactcc cagaccatcc ctgtttgggg cctaaagatg 120
 gctgctttat ttgtggtgcg ctggatcaca aacgcagcaa ttgtcccaac atcggcacct 180
 cttggagagc taacaagnta gttgaattct ttggctttct ggaaaaaaga ttgctcatgt 240
 caagcttcct aggagcaatc tacagaagta caaagctttc agaggactca gaatttttca 300
 gagtgcataa tcgttcctct caccattacg tgagatgccg g 341

<210> 1247
 <211> 352
 <212> DNA
 <213> Mus musculus

<400> 1247
 ggcagggaac tgtgagaaan ttgctcctga cagcgcacct gntccttca tgaantgaat 60
 ntgaatnttg atctacacan atncccggtt cttcttgact gtggtgactt gcancatcct 120
 agcagccta tcangaggaa aatgagcang gctccngccn ctatgcctgn nactggtntc 180
 gncaccatgc caangctctg nacatntgnt tctcngaag cnnaaacnga agnncgtna 240

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aacataagct | cggagatgcg | tgcacaccca | ggacagaagc | ctggacagga | tggcttccaa | 300 |
| accacactta | acaaccctcg | catgccgnga | gatgccagga | cttgggaagg | gg | 352 |

<210> 1248
 <211> 243
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1248 | | | | | | |
| gaactgagag | aatgtcacta | acagcacggt | cggggggcagc | gcanagccgg | aacccgagga | 60 |
| gttgagcctg | gtgaatggct | ggctcagctg | taaggcccag | gatgagattc | tgaatttggc | 120 |
| cttcaccgtg | ggctccttcc | tgctcagtg | catcaccctg | cctctgggca | tcatcatgga | 180 |
| caagtatggt | ccaaggaagc | tcaggctgct | gggcagggct | tgntttgatg | cctctgctt | 240 |
| gct | | | | | | 243 |

<210> 1249
 <211> 232
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| <400> 1249 | | | | | | |
| gtggaatctt | actactcgct | gnaaggaatg | ngactacaca | agcacngngc | gacgctnnga | 60 |
| ctcaananaa | gctnaagctg | tcaactgnntc | notatatgaa | ctacacgtga | ntaactcctt | 120 |
| ttttctnatg | tctgactnnt | gtgncnctat | ctctnttttt | tggagtctgt | ctaatttcat | 180 |
| ctgtttggat | tgctttttaca | cattaaaaaac | caatttttta | aatgaaaaaa | aa | 232 |

<210> 1250
 <211> 317
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 1250 | | | | | | |
| ctgagggaga | agtttgcgag | gggcagccca | ggtttctgga | gatgatgcgt | aggcagcaac | 60 |
| atgtctggga | tccgaaggca | aaggagccgg | ttcgccctgtt | ggggacaaca | ctttcttctc | 120 |
| tatgaccatt | tcgtgattgc | catcaaagac | agcggcccac | gggggtgctg | cggattgac | 180 |
| atcccgaacca | atgaggaact | gtccgttggt | ctctccgatt | ttcttttgta | ttatgtctgt | 240 |
| tacactttcc | agtttcacgg | gtgaatcgat | gcctgtagta | attataagaa | gaaactttat | 300 |
| ggaaaaaaat | caaacgg | | | | | 317 |

<210> 1251
 <211> 374
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1251 | | | | | | |
| ggcctcgca | gaagagagcg | cgcgcgggcg | tggccgggga | cgcgcagtcg | attggccgct | 60 |
| cctcgccgct | cgcagctccg | gctcggacca | accgcggagc | tgtgcctgga | ctcctcccg | 120 |
| caccaggagt | ggtctcgaga | gcccgctgct | gctgccttta | ttcagagtgc | gcctgcgcag | 180 |
| tagcaaagct | tgcttttgct | ccaggaccgg | ccccttgta | gtcatattgc | tagccaatcg | 240 |
| cggcgctcagc | cagtcataaa | gggcttggtt | tgtgcaaccc | caattctgcc | agncatttat | 300 |
| tttaaccttn | cgcaggcatt | cactgccagg | ggtggaccta | gagccatata | tataggggct | 360 |
| tagccagcac | cctg | | | | | 374 |

<210> 1252
 <211> 178
 <212> DNA
 <213> Mus musculus

<400> 1252
gactgaggta ccaaccactg tgtgtgacct actaaagaaa ctacatggaa aatacaangc 60
gtgtctgtct tactgagtga gagaaagtga atcaagcata aacattcaga ggcttgaccc 120
agtatacagc aggtatcnna cacaaacctc tggctggagc tgcatagaaa aagaaaaa 178

<210> 1253
<211> 272
<212> DNA
<213> Mus musculus

<400> 1253
ttactgaggt gccaggccc gtggttctcg tccagctgga agggagggct gagctgctcg 60
ttgttctcag ctgaacacag cacaggctcc agggatagca tgcagagacg aagaggaaga 120
acagagaggg ccaggaagag acggcggcga agctctgggt caagagcagn gaatgagagc 180
tacagatcag aatttataga gctaanaaaa tggctgaaag aaaggaagtt tgaagacaca 240
gacttagtac ccgccagctt tccaggtgag ag 272

<210> 1254
<211> 310
<212> DNA
<213> Mus musculus

<400> 1254
actgaggcaa ggcaagacag tcattgcagtt ccaaactcgtc actggctgca cagcgtcgaa 60
ggccatcgtg gggttcctga aactgtctcc cagaaaatca aattctccgg ccagaaagag 120
ttccgttggg aaagtagctg cctgacatac cgtgtgccct ggaccccatc ctctgagggc 180
ggagacttac aggtcctgtg taccaacact cctgggttta tatggtgcag aggattgtcc 240
caaattcaag gtcagcttgg actacagaat atgacgatgt caaacgaaca agcaaacaaa 300
ccaaaaaaaa 310

<210> 1255
<211> 115
<212> DNA
<213> Mus musculus

<400> 1255
gagaaatctt tctttgactc agaagaagag gcaacttggcg aggtcctcca acaagtttgg 60
tgatcttaag tatgtccgag ttgtcttgca tccagacaca gagcattcta aaggt 115

<210> 1256
<211> 377
<212> DNA
<213> Mus musculus

<400> 1256
ctgcttcttc tttgggaagn aatgnngcga ctgagaggt tcccaaatnc ncangnacc 60
cganganggg cagtnngcgg agccantctg aaactganca cnnncanac gtnanancnc 120
accggtctnn tgganggaac gcagggcctg tctancttac cttggtgcct nccccgtgca 180
tntcncaacc tatctcctca ccggtaaaacc atatacacag cagaccacaac ccagccagga 240
ctatcgaatt ttatctgtag cctaactcca ttctgtgaaac tgaaattctt ggaaacaaat 300
actattttta atatcctatc tcattagatc tgctaaatat atttgtcctt gnacttactt 360
ttatatggaa atataaa 377

<210> 1257
<211> 237
<212> DNA
<213> Mus musculus

<400> 1257
ggaatggcca gtgaggactt ggaacctagt gaagaactag accagccctg ttttgaggag 60
tcattagaag acgccctgag ngacnancnc anttgaggtn ttggatgtga tatccantga 120
ggagctggac cttattgaag atnattcaan gtgaaggctg tacgtggngc cagggctaca 180
cttctcantg aggacctggg acctggtctt ccacgaggaa ggaagcccag tctctgg 237

<210> 1258
<211> 249
<212> DNA
<213> Mus musculus

<400> 1258
actggttaata tgcagactgn cggcccggcc tccctggtgt gaagcttgcg gtagttctga 60
aacagctccc tggccagcag tgcaccactg gagaatgtct tagaaatcca aactctctga 120
tccccgcaga atcaggaaaat ccagagggtgg agtacagcag catgggcttt acaaaccctc 180
agggaagatg atgtgtgtag aacctggtgg gccaccgttg tgcaaattaa aagaattcac 240
acaacctgc 249

<210> 1259
<211> 299
<212> DNA
<213> Mus musculus

<400> 1259
tgctctgga caatggatac aaggaagcca aactccctgc ccaaggaaac aagggtggcc 60
tctactccag ntcccaaaag agtactcctt tccatcagaa acctcatctg catggccttc 120
agacgacaca ctcccagcag ccttctgggt ctctgagccc ccaccacac tgcctgcgat 180
cttacagtag cctgcggctc caaactcttc ctttccctcc taaccagccc caaaagctct 240
gccacgcgtt cacgggcagt gaaataaagt acattttact ttngaaagaa aaaacataa 299

<210> 1260
<211> 211
<212> DNA
<213> Mus musculus

<400> 1260
actgagagtc ttctgcccc ctcccaccat agaggtcagc tccagggag aactttggtcc 60
tagaggtcac caggccagcc caggccattg cagaggaaat cacatcctgg gctatttgag 120
ttctgctggc gntgattctg atggggaaga cacttctgca tctgcaatga caagtcaata 180
agataaagct gtgtttttta taaaataaaa a 211

<210> 1261
<211> 148
<212> DNA
<213> Mus musculus

<400> 1261
agactgggtt cagttcttga gactgttctt ctctgctgcc tcagagcacg attacactct 60
ggagtacctc tttctttgat cgacctatgt gactcagaac acccacatat gagtttgaaa 120
caaacgatca aataaataaa cgaatgaa 148

<210> 1262
<211> 233
<212> DNA
<213> Mus musculus

<400> 1262
gagtatggac aacttggaat ggattcttct tcangtctca ccattaaggt caatgagagg 60

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|------------|------------|------------|------------|------------|------------|-----|
| gcaagcagac | agtgcaagtt | accanaaaga | ctgcaaagtc | caactaaagg | gcgaanggag | 120 |
| acaccaacca | tancatcaga | agtcacggct | ggccggggcc | aggctacacc | ccgtatacta | 180 |
| agggagaagt | ggctttacta | ataaatccat | gtttgaacct | ggaaaaaaaa | aaa | 233 |

<210> 1263
 <211> 102
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1263 | | | | | | |
| ggtcttagaa | aaatacccta | tgtggcaaga | aaggccgatt | tcttacctat | tggagaacat | 60 |
| ttgtctctaa | ataaaatctc | aatcggtcca | gagaaaaaaaa | aa | | 102 |

<210> 1264
 <211> 267
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1264 | | | | | | |
| gaaattctac | ccccctgttc | agcttcaaan | caaacacaaa | acnactgaag | aaaanaatag | 60 |
| gangagggag | agaangggga | anaagagaag | gacagtaatg | aagataggat | gaacaacagc | 120 |
| tctttgtcac | cttttggact | ccaatgcatg | ctcagtgaat | tgggaataatg | ttgatctttg | 180 |
| gaaatattta | gaangaccct | atgaaaatgg | gatgatgaac | ngntctttgt | cnccttttgg | 240 |
| actccaatgc | atgctcagtg | aattggg | | | | 267 |

<210> 1265
 <211> 270
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 1265 | | | | | | |
| gttaagattg | ctgaggagnc | tctccaaatt | agancttgcc | tgggaagnggg | tacaaactca | 60 |
| ttgaggtgcc | cagaagaaac | gactanagat | tagtttgaag | cctcgcccaa | gaaanacatt | 120 |
| atttccccaa | atcttgtcca | agcctggggc | ccccaaaggct | tattgccaat | ggaagcctca | 180 |
| agcctttttg | gtggagttng | gntaattctt | attatntngg | gggagtgga | cggtttcaag | 240 |
| atttcaaggt | taccctttgg | gaaggtaaaa | | | | 270 |

<210> 1266
 <211> 259
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1266 | | | | | | |
| agactgggat | acaaattgga | agacctgaat | agngaggaac | actctcagcg | ctctanaaga | 60 |
| tatggaagac | ataagatctg | tcactctgaa | tacaagcctt | gtgaacttaa | gggatatgga | 120 |
| aagaagcaat | gtacctttgc | agataaaaagg | tttcttcaaa | tatatggaan | aatccatact | 180 |
| gaagggaac | cctatgaatg | taagcaatgc | agtcaaactc | tcacaaattt | ctgtcatctt | 240 |
| cgaaaacatg | aaaaaaaaac | | | | | 259 |

<210> 1267
 <211> 131
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1267 | | | | | | |
| ccctaagggg | ggggtangat | gtatgaangg | ggggantggg | aanatngntn | ttatganngc | 60 |
| ggggggaaaa | gaaagtacct | ncacagtcct | tagagaacgg | ganagctnaa | gancgcttta | 120 |
| aaaaaacaaa | a | | | | | 131 |

<210> 1268
 <211> 226
 <212> DNA
 <213> Mus musculus

<400> 1268
 aagagcgcgtc ttgcagagga cctgaattta attccaagga cctgnttttt attcccagca 60
 ttnataccaa ataactgcac cangtccttg tgatgnncca nanntacata tgganggcnt 120
 gnntgnccat ttenatcacc gttccttcta aatacngag ttcntgtcca aggacctgag 180
 tttaattccc agcattcnta ccaaataaat caccaagtac ctgtaa 226

<210> 1269
 <211> 110
 <212> DNA
 <213> Mus musculus

<400> 1269
 gccagcctgg cctacattga naaacctcat ttgggaaag tgaaatactt tgtcaattaa 60
 natgcacttg gttcaatana gacttttgga aagngtccaa aaataaaaaa 110

<210> 1270
 <211> 196
 <212> DNA
 <213> Mus musculus

<400> 1270
 tttgccccca tgcacacccc tcacannng acccactttg ggnggggcaa ggnttccttg 60
 ttntgcccga ggaaagcggc gctacnctg caagcanagn tggttacggg ggggnaaaca 120
 aagccanttt tttntaaaga nggccaaaacc cacaaaaaaa attgtcctca ggnttgggng 180
 tgttgacccc actgca 196

<210> 1271
 <211> 320
 <212> DNA
 <213> Mus musculus

<400> 1271
 gactacaaaa catganngtc aatccagctt cctgtngcct aagagangag gagtcaatta 60
 ttngtngcct gncataaac tactaattca gacnncacaa aanttattnc agaaagaaga 120
 aacaatgtaa ctcanncact gggaggaccg aggtcnnngn gaagagggag gtgggaagag 180
 catggccttg ccacgatttt tgcagagagg agctctccnc accagcttca gccatcacca 240
 ccttgctgtg tncctgctca cgttcttcag gtantggctg gctgacactc ttgtcttctg 300
 cctgtgggga cgatacttac 320

<210> 1272
 <211> 127
 <212> DNA
 <213> Mus musculus

<400> 1272
 tgaataaggc cagagctggc ctacattgan aancctcatt ttgggaaant gnaatacttt 60
 gannaatgaa ccccgcccc cggttcttta aanacttttg gaaagngtca aattaaaacc 120
 ttgatca 127

<210> 1273
 <211> 188
 <212> DNA
 <213> Mus musculus

<400> 1273
 ggtccacggt tggacgccag actggttgaa gctgacctcc ggctcacaag aaacggggta 60
 cacctgggag gcaaaaactgg actgaaaaga gaggggaact aggcagtcgg gagaaaaatg 120
 gagctaagtc aagattcatg atcaaagctc aaatgtttta taaaagtctg ccatgccaaa 180
 aaaaaaaa 188

<210> 1274
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 1274
 ctgaggaaac ctttactgan gtnccattgg gctgagntcg annctgggca ctagggcata 60
 attacttctt ggggaactct caaaggctcg acaggaccaa caa 103

<210> 1275
 <211> 183
 <212> DNA
 <213> Mus musculus

<400> 1275
 ttggaaagca agcaactgct tgcttgaacg gaggcctaca taaaccccag ggacctagcc 60
 ttctccccgg ggtagccat ttcccaagat gtngtaagga ggtcacatgt atagagtctg 120
 gcagctttgc aggaagctaa tatccaaatg aaactcagca gccctcctt tcccagcttc 180
 acc 183

<210> 1276
 <211> 450
 <212> DNA
 <213> Mus musculus

<400> 1276
 gactgagtgg actatgccga ttattaccag ggccatggg attgccatgg tgaccagccg 60
 gatgaactgt ccttncaacg ggtgaacctc atccgcattc tgagcaagga ntacaacatg 120
 tacngctggg gggtaggana gctgaacagc tgnattgga attcgttcca naggantatt 180
 tnaccaccga ctttgaaatg gaaggaaatg tgaagccan ngaacatatt ctgagaccat 240
 aagaaactnc cgtcccctac tntggccatg gatccttctc ttccctgaat ggagccaaga 300
 ctntnctgtt tcttngact ttaanccact gttaagatga gtaggaagaa nacagnncat 360
 caatacctgt ttctnaagca ancagcttct aacttctgct cctctctgtg nccccacatn 420
 cataagcctt tctacaagc ctgctacaaa 450

<210> 1277
 <211> 150
 <212> DNA
 <213> Mus musculus

<400> 1277
 gccagcccat ctctgggtag cccctggag gggttgctga gaaagggtgct ggcccccttga 60
 tccccctcct tgctttctgt catcctttct tctcatgtcc acactgctct tcaaataaaa 120
 acattttctc tgctccctta aaaaaaaaaa 150

<210> 1278
 <211> 479
 <212> DNA
 <213> Mus musculus

<400> 1278
 gagcgtggat tcttctnaca cccatgtccc gccgcgangt ggaggacca caaggtttct 60

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|------------|------------|------------|------------|------------|------------|-----|
| aatgaagaga | ctgtgtgtgt | caccgctcat | aagagagaaa | aagagggagg | gaaggagaga | 120 |
| gctottttaa | caaaagacaa | ggaggcccaa | gtaggggcct | ggagccgtcc | ccggagcctg | 180 |
| ctcagcctga | agaccctoca | gttccccggc | tgggcaggca | tttcggagag | ggtctgccac | 240 |
| cgaggcgga | cgggccggcg | ctcgcgcttc | ccgcggtctg | agaagaacta | gagacaaagc | 300 |
| cgggatccaa | ggccttccag | cgaggctcca | atcagcgccc | gcccggagct | cgctcgccgc | 360 |
| cgggcgaggc | gcgaccccct | gcgggctgtg | actagggagg | ggagcccagg | cccggactcg | 420 |
| gccttcacag | cgccctggct | agccctggct | agccacgttc | cccgggtcgc | actcagcct | 479 |

<210> 1279
 <211> 177
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1279 | | | | | | |
| tgggggggacc | gtggcttctt | ctacacaccc | tgtccccgcc | gogaatggag | gaccacaaag | 60 |
| ancatnaggc | nnatgggttt | tccatctctc | naaagaccac | ncgtncaaag | aagtcaccag | 120 |
| tgantnnag | ttccaagnag | gctnttttgg | ctngtaaaac | cccaaagaag | actacct | 177 |

<210> 1280
 <211> 285
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 1280 | | | | | | |
| gtgggggagcg | tggattcttc | tacacaccca | tgtccccgcc | cgaagtggag | gacccacaag | 60 |
| atcttctacc | ttgcctcact | cctctacacc | gtcagctaca | tctggtgtct | gtactcggag | 120 |
| ctgaggagga | agagcggcca | gagtgagagg | agcacggttg | cccagggtgac | agattatggt | 180 |
| tgccaagggtg | gtcacatatt | gttccttttg | ccaagtgaga | cccccaaagg | ggtgatgaag | 240 |
| cctgtgntcc | ttttgggcaa | tgncaatgaa | tgtttccaca | acttc | | 285 |

<210> 1281
 <211> 350
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1281 | | | | | | |
| agcgtggatt | cttctcacac | ccatgtcccg | ccgcgagtg | aggacccaca | agatttatca | 60 |
| agaaaaaaga | acggagatat | ccctgtcagt | gtcaatgaag | atcctccaaa | agattgattg | 120 |
| gagagtcaat | gatccaagaa | gacttagagg | aggagtttca | agacaaccca | ctgtggactg | 180 |
| gcctccntgg | ctttctgcct | tacctacttc | ccctccttga | tcccttcctc | tttctcctcc | 240 |
| ctctcatggt | gggcaagatc | acacaatcct | tccaacagcg | tctagaggac | cagctctcag | 300 |
| agtagcagaa | gatattatgc | aagctgccaa | gtgagaacca | caaaggagac | | 350 |

<210> 1282
 <211> 156
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1282 | | | | | | |
| ggggagccgt | ggattcttct | acacacccat | gtcccgcgcg | gaagtggagg | acccacaagc | 60 |
| cgnctcatn | tccaccgatg | ngtttancta | ctctgnanac | cttcttgcaa | caggagacat | 120 |
| anggtggcgg | agntgttatt | ttccagcggg | aacaca | | | 156 |

<210> 1283
 <211> 266
 <212> DNA
 <213> Mus musculus

<400> 1283
 tgtccgcgcg cgaagtggag gaccacaag gtaagcctct gtcctgant tanttctatc 60
 ccaagtgaga accacaaagg ctcgagacca tnagcggcct ctgcatata ctttccagtg 120
 nntttgtcag agagatccga cagagcccta gtcctncag aggtggncca naaagcgagt 180
 gacgagagcc cancacacat ggtaaaaatg accangtcca aaactttcca agcttatctn 240
 ngencactgt caccgaact tacagc 266

<210> 1284
 <211> 184
 <212> DNA
 <213> Mus musculus

<400> 1284
 ggggagcgtg gattctttct acacacccat gtcccgccgc gaagtggagg acccacaagt 60
 tccaaagagg tgcttgagct cgagtcctca aannnngnn nnnctggcag cntttgcggt 120
 atatttgnaa acananaccc tggtnaccct agaggctntt acagagattc ttggcattga 180
 acca 184

<210> 1285
 <211> 121
 <212> DNA
 <213> Mus musculus

<400> 1285
 gtggattctt ctcacaccca tgtccgcgcg cgaagtggag gaccacaag cgattgagaa 60
 gattgtctac caaatntaga acagactaga tttatccac agccactgga gaaaaaaaaa 120
 a 121

<210> 1286
 <211> 102
 <212> DNA
 <213> Mus musculus

<400> 1286
 ggggagcgtg gattcttcta cacacccatg tcccgccgcg aagtggagga cccacaagtg 60
 gcttgagctc gattcctnac accggagcca aaaagaagaa aa 102

<210> 1287
 <211> 228
 <212> DNA
 <213> Mus musculus

<400> 1287
 gtggggagcg tggattcttc tacacaccca tgtccgcgcg cgagtggagg acccacaaga 60
 atcattaagg aaatagaatc tgccaaaatc aaatatatgt tctatttnt actaacagga 120
 ggcccnacn ngaggaggga gacnncaga ggattattct gatccagaat cgagacagta 180
 atccagaggc ccaacctccc caagtgagaa ccacaaaagg agtaccac 228

<210> 1288
 <211> 214
 <212> DNA
 <213> Mus musculus

<400> 1288
 gagcgtgat tcttctcaca cccatgtccc gccgcgagtg gaggaccac aaggtgggggt 60
 ctttcagcag gcgcctcgga aatttcatct gatagtcgga catgatggct acgccttcaa 120
 cccagccta gcccggtgta cagcgcaagt tccaggatgg cagagggcta ggcagagaag 180
 ccctgtttgg aaaaaccaa gaagaaaagg aaaa 214

<210> 1289
 <211> 281
 <212> DNA
 <213> Mus musculus

<400> 1289
 agcgtggatt cttctcacac ccatgtcccg ccggaagtg gaggaccac aagctatata 60
 gatttccatt gcgaagcttg agctcgagtc ctcaaactg cgcctccgat tgacgaaatg 120
 cttcctcacc accgtcatca tcggcgaagt taagggtgaa gactcatctt tagtaataag 180
 gcatgactgt aattccngca ccctctggcc attattaatt atgattcatt gcatgaaaga 240
 gaaaataaag atctacatac gctcaaagca caaaaaaaaa a 281

<210> 1290
 <211> 336
 <212> DNA
 <213> Mus musculus

<400> 1290
 gagcgtggat tcttctcaca cccatgtccc gccggaagt ggaggacca ctagaggcaa 60
 ggacntgaag ngngggcctc ttcnntntag tncattctga anaagaagct gnccttcctt 120
 tcaggangaa aggacagacg cnggtggnc tcatnttgaca attgncaggt gtgccttgag 180
 catgacacan tatggatgag ctgagngncn ctttngatta tntactnnnc attccnagtg 240
 agaccacacn taggaattcc gctgtgcctt gagcagacaa gtatggatga gctgagtgtc 300
 acttttgatt atctactcag cattccaagt gagacc 336

<210> 1291
 <211> 310
 <212> DNA
 <213> Mus musculus

<400> 1291
 ttgtggggag cgtggattct tctacacacc catgtcccgc cggaagtgg aggacncaca 60
 aggnnngctn ngctcanntg tnancentat cctgnggcat gnncaacaca gagtttctaa 120
 cctggatcat gatattggaga tcattttaag gttcctttac ttctttttgtg tgaatcggtg 180
 tcctacggaa gatcagccat tgctccagcc ccaactgcctt ctttctttaa gacactgagc 240
 ggatccacct gtcttgatg tctagtcttg tgagaataaa attgttccca ttcaaaccba 300
 aaaaaaaaaa 310

<210> 1292
 <211> 394
 <212> DNA
 <213> Mus musculus

<400> 1292
 ttgtggggag cgtggattct tctacacacc catgtcccgc cggaagtgg aggaccacaca 60
 aggnatgtgg atgctgtgag ctcgagaact catttgggag tatttgtgtc cttcaaaccba 120
 gaagntctcc tctttgtctg gctatcggaa acaactgggtg tgtggatgct tgagctcgag 180
 ncctcanaga ataacatgct ggagttggtt ctctccacat ggggtcccagg attggctatc 240
 agcctttgtg gcaggtgttt ttatccaaga agccaaacttt ccccatcttt tcttaatgtg 300
 gatgttttaa gctatgtatt tccacttact ttggctatgn ngnattncca ttctttnttt 360
 tcttnttttc tttcttctct cctttagttt cttt 394

<210> 1293
 <211> 112
 <212> DNA
 <213> Mus musculus

<400> 1293

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggacggaccc | acaaggtata | aggcagtatg | gcttatcttc | tttgtgctgg | gcctggggac | 60 |
| actgctcccc | tggaattttt | ttatgaccgc | aaccaagtga | gaaccacaaa | gg | 112 |

<210> 1294
 <211> 191
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-----------|------------|-------------|------------|------------|-----|
| <400> 1294 | | | | | | |
| tacacaccct | gtcccgcgc | gangtggagg | accacacaagg | gacttntnga | accatgccna | 60 |
| agcncncag | tgaagcagg | actgccttca | ttcancancc | anctagcctc | catgcagcca | 120 |
| tggatgacac | nttnatnga | acacatgtng | nctgcctagg | ccatctnact | ctgncccat | 180 |
| catgggccga | a | | | | | 191 |

<210> 1295
 <211> 377
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1295 | | | | | | |
| gagcgtggat | tcttctncac | acccatgtcc | cgccgcgang | tgaggagacc | acaaggcccc | 60 |
| agatccaact | acaagcaagg | acatccactt | cttctgaggt | tgtcttggtt | cctgggcctt | 120 |
| cttatagcct | gcagaaggac | cctcccagtc | tcctgggcag | ccaagtaaac | agaagtggga | 180 |
| ccgcttctga | catggcttcc | ccgtgttctg | gggacctcag | ccccactgg | ctggccccgc | 240 |
| cccctgtcac | caotccagga | ccggctgcgc | ccaccgcacc | gcgcttcccc | gacatctacg | 300 |
| gcggcgacgc | gcagctttgg | gaggcgcatt | tccgcggcat | cgggcgcgcc | taccgcgctt | 360 |
| gagctcgagg | tccttaa | | | | | 377 |

<210> 1296
 <211> 361
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 1296 | | | | | | |
| cgtggattct | tctcacaccc | catgtcccgc | cgccaagtgg | aggaccacaca | aggattccag | 60 |
| gatgccttcc | cagaacagaa | cccagacatg | tgagccgctg | gccggacaca | acagaactgg | 120 |
| ngantgtata | tactttgagg | catannngan | ntactactct | gcngtgnagg | anacaactcn | 180 |
| ngctnnngntn | gcaggntgca | ccaacgttgg | ctcntgggnt | ntcanntntt | gnaggcnttt | 240 |
| cnttangnac | atggttgttg | ntccttgggn | taganatggg | atagcctcta | tntcntcgac | 300 |
| tagtnttcca | atacaatgct | ttcttctact | ccaccaaata | aattccattt | ttgccagaaa | 360 |
| a | | | | | | 361 |

<210> 1297
 <211> 223
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 1297 | | | | | | |
| gtctgggtga | ggatttttta | ccccttacc | atccccttct | actttttaact | ctttgagaaa | 60 |
| cgttggcagt | gactgcata | ggttgactt | ctatcaagaa | gcctggagaa | gctgggtcaat | 120 |
| agaagagtat | gggagccata | ccatcggggc | tggtgtgtgac | agtggaaact | gaaagaaaat | 180 |
| gtctattgat | taaaatgaca | ccatttcttc | taaaaaaaga | aaa | | 223 |

<210> 1298
 <211> 452
 <212> DNA
 <213> Mus musculus

<400> 1298
actgagggag gggagcatgt gtgtgccatg gcacaaaagc agaggccatc ttgcaggagt 60
caggtctctc ttcccatcag gngggaccca aggagtcagt acatcagcct tggagagtgc 120
tgcccgtggg nnantgt nag tnnnccctn gnctttgagc ctttgncttc ccacctgtgg 180
catgggaaca acaacatgag tacagacaca gntnaggaga gaganagaga gagccagtat 240
cancttctgg tttggaancc tgaganccctc tttctgagtc actttgtttc tgcccccaac 300
ctttgctttg ntatgggtcc tgcccttctcc accagaggca ggaagagctg gcatggagct 360
gctgggcaac acggggccctg nttccccacg tttagtngnc ggacagaact atgttncanc 420
ctgggctggt gagtaaagct ctgggtctgca ga 452

<210> 1299
<211> 382
<212> DNA
<213> Mus musculus

<400> 1299
tgagactcag gctggtgcta tgaggatcaa accaagggtc ctagaagcag ttgcttgggg 60
cctgagaagt ggnctggagc ctgtaaggag aatcagcagt ccccatcaa cattgtcact 120
gctaggacaa aggtgaaccc cagactgaca cccttcatcc tcgtcggcta tgaccaaag 180
caacagtggc caattaagaa caatcaacac acagtggaga tgacgctggg gggaggtgtg 240
tgcattatcg gaggagacct gcccgcccg tacgaggctg tacagtggca cctgcactgg 300
ncaaattgga atgacaacgg ttcanagcnc agtattgatg ggagacactt tgccatggag 360
atgcncatcg tgcacaagaa gt 382

<210> 1300
<211> 375
<212> DNA
<213> Mus musculus

<400> 1300
agtttgaagg aactgagtgc agcggaaacac acctgtaata cttcaggaaa ctgaaacagg 60
aggattgcta tgaattccag agtggaatt accatatggc aagtagtaag ccagccagag 120
tcatagaggg aagccctgat ttaaccatgt taaggataac aaaatctggc ctgttggtgt 180
gctaggatcc taggccaggg aggtgtaaaag gccctgattg ctctggagga agctggctgc 240
gtgctgggag ggaaagggtca tggttcatgg actcatgctg gcaaagttag aggtcaaact 300
tccaaagtag ccaaaaaagg agggaggaaga ngaggaggaa tagaagaacg aggangcgga 360
agaagaggag gaata 375

<210> 1301
<211> 125
<212> DNA
<213> Mus musculus

<400> 1301
cgctcactgg gggcccatcc tgctgttctt ttgacaatct cctggaagtg ggtcccatct 60
gtaagtatct aattcactct tttttttgaa aagtattctt gacatggagt ggaaaacaaa 120
acaaa 125

<210> 1302
<211> 315
<212> DNA
<213> Mus musculus

<400> 1302
actgaggctt tctatcacag gntgancttc atttttttcc ttttcccttt tgtgattgag 60
ctagcccagg atgtgattga gctagccctg gatgtgattg agctagccca ggtatgagctt 120
cccacantac acagagtant ggtggctcag tggaggactt cttgcttttc cagtgtggnt 180
ggagaaatgc ncatttgaac tggatgttgc ctccgtcctt ggtttaggca ttactccttc 240

atggagtgccc tgtotcaatc tgtaccagtg aacaaatgta aaccatgaat ttgtctttct 300
ttaaaaaata aaata 315

<210> 1303
<211> 241
<212> DNA
<213> Mus musculus

<400> 1303
actgagagtt tggattcgag tggttttttct gacataacctg aacacttgga gaggaacctg 60
gtacagagga actctactat aaggatgagc cccacagatc cactgtaagc ctgacatatt 120
aattgtgatg accttacnag aaaagtgata ttttaatatata aacagcaaca gaatttaata 180
atggatagag tatcccccaa aacgtctgtc atgcataatt aaaagcacat acttatgctt 240
a 241

<210> 1304
<211> 448
<212> DNA
<213> Mus musculus

<400> 1304
ggctagtgct gccttttcgga ttcatctgag aaaaggcctg ttgctgaggg tgacatgngg 60
tgactatacn agactcaatg ncgggtgtact gagagcaagt gantgtgggt gctcaggcct 120
gagtgggaca tccacatcaa cacctgccaa ggcccaggga gcttcacgga agaggactcg 180
gagagaagat gagaacaagg cgatgagggg aagtgtctgcg gaacaccgtt tcccaggcag 240
aacatggcca ctgcactcct aatcgctcag caactgagat gacttgagtg agacctgcag 300
aagactgggc ccgtcagcat cccatcatgg atgggtaagg gatcataagg acccgcttcc 360
ctgaagctta cagttgggtac ttgctgggat tggggtgggc ttttangngt tttaaaaggc 420
nacaccattt cccagtgtgc atgtgttc 448

<210> 1305
<211> 280
<212> DNA
<213> Mus musculus

<400> 1305
atcccacgaa tggtnactc ctgcaagcca gtggctcaaa ctgaccttga actgcgagct 60
gacagtnggg cccgcgggtg tttgcttcag catttcaagg tgnccctggnt gttgcggctg 120
gagacgtgtt caaagaggtc atagatgaan ncgaacctgt gtgaaggag cacagactgt 180
gaggtgtgta cacngtgacc gtcagggtacc tgctactgta attacagtgt agttctacaa 240
tgataattaa aataatacac ggggcccctga aaaaaaaaaa 280

<210> 1306
<211> 116
<212> DNA
<213> Mus musculus

<400> 1306
gactgagaaa cacctgtttt gngctgagtt attttgngga aaattatagt ttttgctttt 60
gtgaagttgg cattttcacc tttgccttaa taaaattgng tgtagaaata aaaaaa 116

<210> 1307
<211> 155
<212> DNA
<213> Mus musculus

<400> 1307
accaggaaga gaatctactg aaactacagc ttgctaagtt gtcttaacaa aagatagaag 60

| | |
|---|-----|
| ctcaacttga caagattcgt ctggatccca ggaaaaacat ggatccatga cttcttcaaa | 120 |
| tacagattcc tggttttctc tgtcggaaaa aaaaa | 155 |

<210> 1308
 <211> 158
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1308 | |
| ctagggggca agaaatacga aagggcggt gtggacatgt tcacnaaata gggctttnt | 60 |
| atcgantcca ntcttctctg ncagcagtct agtccacttg gcaaacacc aaatcaagta | 120 |
| gcantngact tgatctanaa naaactgcaa ggctcccg | 158 |

<210> 1309
 <211> 336
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1309 | |
| atcgaggcc ctctgctgnc atcttctccc agggagtacc agaaacatat taaaagaaca | 60 |
| catgccaac atcacactcc agaagccgat tgaaagtac taccagaggt acctgaatgg | 120 |
| ccgtggggaa aaacggagca gccccgtgc tcttgagct ggccaatgag gtggactatg | 180 |
| cacctcatt aatggctcgg attatcctgg agagatttct acaggggcat gaacagactc | 240 |
| cacctnact ggctanttnc tncnctcagg tnccttantng ttttctataa catgnatgnt | 300 |
| tgttaccttg nncagaata agaatagatt agagca | 336 |

<210> 1310
 <211> 240
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1310 | |
| gactgagata aggaggtcgg ccagttcctc ctgccttcgg gaagatgtag gcattgcatt | 60 |
| gggaagcatt gtttgagaga tgtgctagtg aaccagagag tttggatgac aagctgtata | 120 |
| atgtttcttc aaaaaaagtt ctaacaaagg gatctttaac ttttttttct tccttctact | 180 |
| tttcttgta ggctatcagc ctttggtataa tgaaatgnga gctttgctta aaaaaaaaaa | 240 |

<210> 1311
 <211> 298
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1311 | |
| gacactcaag gcaccagctc tcctcaaata tatagaagaa taaaagncaa ggaacaaggc | 60 |
| acagcattgc attccagagt agaaccccag tngcaacca ttgacaccaa cacactgggc | 120 |
| tgggacactg gcttntgtga tottgacagc gggagttgnc tttgcatgtg aatgagctgg | 180 |
| ccaccattgn ngtaacgatg tgaaacagac gtgaaacngg ggaattctng aaccnnttan | 240 |
| tgtcttctng caacanaaaa ttctggttga gncacgttga ccatttttaa aataataa | 298 |

<210> 1312
 <211> 119
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1312 | |
| cgggccgagc ctgacgtntg tcntcttcan gtnggcaccg gcctcccag ggagcggggc | 60 |
| gggcagaggc tgncccatgg aaccgtctgn aaaanacaacc ctnttacctt cccggggag | 119 |

<210> 1313
 <211> 182
 <212> DNA
 <213> Mus musculus

<400> 1313
 tgagagatac tagatggcaa cttggggaag tattgcttgc ttagcaagag cttagggata 60
 attcctgtta acagtaaaac tcatggccca ccagctacaa agtgtctttg ccatgaaaca 120
 gaggacatga taaactgttt accttaatga aattcaagtt gcattgtgaa ttctgccaga 180
 ta 182

<210> 1314
 <211> 287
 <212> DNA
 <213> Mus musculus

<400> 1314
 aatgttctcc catcgaata cctgaagcag aagaactntn ccattttcct tgggtntgga 60
 ctaacagaaa atnaaaaatgt cncataggtgn gnaaggatgg ctcagaagca aaggacattt 120
 gttgctcctc cagaagactg gagtatgcct nctntcacac acattttggc agcccatgat 180
 gcctctaagt ccagctncag gagatctgat gctctcttag ccttcttggg caccatgtg 240
 cacgtggcat gtgcacacac aaggaaataa ataaatagga taaataa 287

<210> 1315
 <211> 101
 <212> DNA
 <213> Mus musculus

<400> 1315
 ggggatccaa cgccctatct tggctngctc tnggcactgn anntagagna cagaatacat 60
 gcatgcaaaa caccatatac caaaatataa ataaaataaa a 101

<210> 1316
 <211> 214
 <212> DNA
 <213> Mus musculus

<400> 1316
 aactgaggt ctgctgaatg ctgtggactc ggatgctgta tcaggcctgg gtgttattgg 60
 ccataatcatt gaaaaagaca agatcactac caggacgctg aaggcccaga tggactaacc 120
 tatgctctgg atggactaac ctgtgctctg gtcccgctc cttttttgnt gnttttcttt 180
 ttaataaaat cacctttctt tcaaaaaaga aaaa 214

<210> 1317
 <211> 328
 <212> DNA
 <213> Mus musculus

<400> 1317
 agcctgagcc agatacctga tgaataactnn aggtagaagc atttctacac tgactcaact 60
 cagctataaa cctctgcaag gaaggaattc taacccatag atgctggtat cacctgcacc 120
 aaggcaaagg aagaaggatg cttcantctc cagacagcct gatccaactc cagatgtcan 180
 gatagancaa gtggctgggg accctggggg cacagtctta gggtatgatg cctgngcaan 240
 antcttngt tttgagatgg agttagncca aagggaagag cntaaannaa ctcagatcca 300
 cactgatctg cctgacacaa ccccgaaa 328

<210> 1318
 <211> 325

<212> DNA
<213> Mus musculus

<400> 1318
agacctgggc agagccataa ttactttcttg tggaactctn nnaggngnga caggaaaaag 60
ggtatngnnc ngtnngcaa nnacacaccc ggggactggg ttccntncca tatccnnncc 120
agnatagaat tatcacaata cntngcattt ttcnantggg tggcttaggc ccaataaaan 180
aggganaaga gatcntgcaa aacaaagagg atgaaagcaa ggctgacaaa ctcagaagaa 240
cagcggttgac ctgcgagggt tgagtaagaa aagaattctc tgctgcccaa cactgtcaca 300
ggcaggacag aagtgaactg aggaa 325

<210> 1319
<211> 227
<212> DNA
<213> Mus musculus

<400> 1319
tgtctggtgc ctgaccttta taggaagaga agtcatttat attcaggagt tctgcagaga 60
tacatgtcct ccaaagcacc ttctttgtct tgtcataata aggacagtgc atccccctct 120
gagcagctag aattggatgg gtggaaagct acnatgaagt cgagcattca agaagatggg 180
gtttcagagg tctcagacaa agntgaagat tcccttcgcc tcggcca 227

<210> 1320
<211> 465
<212> DNA
<213> Mus musculus

<400> 1320
ggcatcctat cacttttacag cntaagatgc tccgagcnca gcctgaaatc ttggaatgac 60
agcngtcan acctctgtag cancagacca ggaggaggaa gaggagatgg tcttcggtga 120
aaatgaggac ggaactggaag agatgatgga cctaagnagc cttgcccacc tcactctttg 180
cttgacagtn tccatgaagc agtggtttgag gtccaagagc aaaaggagag gtttgaggcc 240
ctgttcaccc tctacgatga ccagggtcana ttccanttgn tcaaganctt tcgcanagt 300
aggatcaact tcagcaagcc cgangccgag ncnagagccg cgnatagagc tncatgagag 360
tganttnac ngccggaagc tgaagcttta cttcgcacag gtgcaggtgt ccggggaggc 420
ccnggacaag tntactttac tgnccaccaca gccaccaag cagtt 465

<210> 1321
<211> 489
<212> DNA
<213> Mus musculus

<400> 1321
gactgagatc gcttttnacga gagaagactg atgaagaccc cgaggtgcat caacccgaga 60
cctggacaga gggcctggcc ccagggtggac gcgaaggcgg cttccgtctc cctctgagt 120
catctgtgga cttggttgca ggctcacctt taagatattt gtgtgactcc caacttctct 180
tccgtatctt agcagtttga ggttcacgag gcagcaagga tcagtaggaa gcacaggtat 240
taacaagttg gccaaagtgc acgtcccacc tctgggatgt cgtttagtgc ctgggtgcat 300
ggctgcagtt actctttcat gtataaagca gggatgctgt atctacctca cacggttact 360
aaaagcaaac acggaatcca aagccctggg cacatgccga catctgaaaa gctgggtgtt 420
ctcccacctc cctccgagtg catgctgtac gcagctcttg cttttatccc tggggaaag 480
ctgagggtca 489

<210> 1322
<211> 169
<212> DNA
<213> Mus musculus

<400> 1322
aaccagcaac ctaccctgnc tcttgggacc ctagnattta tataccctnt gnagantnnc 60
cagaattnca gangtcncac tatcncagaa actataactca gntggcaata anannataacc 120
cctgctagag cattgaggna aatcatagtc agctgctgag gacagactg 169

<210> 1323
<211> 269
<212> DNA
<213> Mus musculus

<400> 1323
tgaggctcag attcccaacc aacaaggnc t caagggagga ccaccatgtg ccgagccatc 60
tctcttaagc gcttgntgct gctgctgctg canctgtcac aactcctagc tgtcactcaa 120
gggaagacgc tgggtgctggg gaaggaaggg gaatcagcag aactgccctg cgagagttcc 180
cagaagaaga tcacagtctt cacctggaag ttctctgacc agnggaagat tctggggcag 240
catggcaaag gtgtattaat tagaggagg 269

<210> 1324
<211> 566
<212> DNA
<213> Mus musculus

<400> 1324
tccacgctga gcccatggt n cagntcaga ngagggtggag tatgcntaag gcttgcagat 60
nnagggcnca ctactgcanc ttaagncncc atgcctgcaa agnaagctgt acccgttgga 120
gccatcanna cctaactctga agcgaggggag ttngacgttc tcntaagcaa gggctgnctc 180
catggcctcc tcanggtatt ctgtaccacag tggnnccagt agctccatca cgggtantgag 240
atgcangatg cnnaaagagc cttctctacc tggcttatnt ccatttatcc tgcacatgcc 300
cgagatgcc atcatacagc atgatacnag gtcagctgac tgtggaaggg aggagtcatt 360
catgagccag ganaacaaag tgcacttgaa gctgngaact ctacagagtc agtcagtnaa 420
catcccatgc ttggctccca cgtcccgn a gactgctatg ggtcaacggc ctcanagtgc 480
cccaaaaacg ggcaatccga tccaacgatt gcttttactt tgacagctgg tgctgtcag 540
cttatttata cttcgagaat atactg 566

<210> 1325
<211> 193
<212> DNA
<213> Mus musculus

<400> 1325
gtggggagcg tggattcttc tacacacca tgtcccgcg cgaagtggag gacacacaag 60
gtngntaccc aagttgtgct cactaccatg agnttcnatt nngcccnngg agaaccngnt 120
nngatacaca gttaaataca cagttgcaag cagaccaaga gcatcaggat gcccaagtga 180
gaccacaaa ggg 193

<210> 1326
<211> 386
<212> DNA
<213> Mus musculus

<400> 1326
ggggagcgtg gattcttcta cacacccatg tcccgcgcg aagtggagga ccacaaagg 60
cacnatactn nctgcgngnc gtctgaaaaa cgagtgggtt gaaagccatc cagaggcttc 120
cattagttag atttttgagc agaaacaaca attggaagat atcgtctccc ccattcctagc 180
acnaaatgtc tacaccacgn catttngntn cctcataang agaccttnca ctnatnaaca 240
ggccaagnga gaagcannna ggttttacag atgccacatg gtgtagaagg ctacattaca 300
tttcagtatt aaatacgaca aacctgttcc tegtctctgc caagttcaag aaatagatnc 360
aggcttttgt caaacagccg aaaaaa 386

<210> 1327
 <211> 245
 <212> DNA
 <213> Mus musculus

<400> 1327
 gagccgtgga ttctttctcac acccatgtcc cgccgcgaag tggaggaccc acaagnctgg 60
 gaatgagatn cagggncctta tacntactag cacaaatgct gnactacgga accacacttc 120
 nnaccctgtt ggttntggag aatntnctga atntttttct ganatntact gaaggtcacc 180
 agctttggag aatccnagga atgttcccc ttagaggaag aatgctgttg gtcagtgaag 240
 aacga 245

<210> 1328
 <211> 499
 <212> DNA
 <213> Mus musculus

<400> 1328
 gtgggggagcg tggattcttc tacacaccca tgtcccgccg cgangtggag gaccacaag 60
 aaccagcag tgatgtggag gtggagactc acgggagccc cggacttcac ctgagctacc 120
 tcagtcgcca agngagaacc acaaaggaag aagaccctga cttggggggg accaggatgc 180
 ctgaccggga cagctatgcc aacggcactg gcagcagcgg tggaggccct ggagggtggg 240
 gcagtgagga ggccagtggg gcagggacag gcagcggggg agccacctca gatgccatct 300
 gttagagactt cctgaggaac gtctgcaaac gaggcaagcg atgtcgatac cgccaccag 360
 acatgagtga ggtatccaat ttgggggtaa gcaaaaatga atttatcttc tgccatgact 420
 tccaaaacaa ggagtgtagc cgccccaact gtcgtttcat tccacggctc caaggaggat 480
 gaggatggct ataagaatg 499

<210> 1329
 <211> 140
 <212> DNA
 <213> Mus musculus

<400> 1329
 ggggggagcg tggattcttc tacacaccca tgtcccgccg cgaggggagg acccacaagg 60
 actctcagng ntcnnntctn tnctcnttca ccangnagat gcnggacnga ttcactctc 120
 ccaagtgaga accacaaagg 140

<210> 1330
 <211> 262
 <212> DNA
 <213> Mus musculus

<400> 1330
 gtgggggagcg tggattcttc tacacaccca tgtcccgccg cgaagtggag gaccacaag 60
 ngtgtcttta tcacctcact gcttangctc tgctctcaag cnaagccaag tgcaaactct 120
 ccaagnagga accacaaagg cggccttggn catnatagnn tngacnagcn tctgntccct 180
 ctaccanntg aaaaantact gntcttgac ncaccactac ccagcctacc cctgctgcg 240
 nggagtctaa acctttaaat ga 262

<210> 1331
 <211> 341
 <212> DNA
 <213> Mus musculus

<400> 1331
 agcgtggatt cttctcacac ccatgtcccc ccgcgaagtg gaggaccac aaggctnttn 60
 ancnnanctn tgaanaannt tgntatgctt aaagaaatgg acnnngatct taactcagta 120

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gncattgctg | tgaagctgca | gggtatcaaa | anggattctt | cgctccgatg | agnncatcct | 180 |
| ttnagncagn | ggncctgggtg | agacagagct | ccagttnact | cttctccntc | cagnaccctt | 240 |
| atttccttat | ncganatgcc | ancannactg | caaattatgt | ngcacaggag | gaagcggtag | 300 |
| aagaaccnna | actatcttgg | gctataaaac | cttagctgag | g | | 341 |

<210> 1332
 <211> 179
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1332 | | | | | | |
| gaggggagcg | tggattcttc | tacacaccca | tgtcccgccg | cgagggtggag | gacncacaag | 60 |
| gtagccnttg | aaacattggc | ttgagctcga | gtcctcanac | tactatgagg | attaaattaa | 120 |
| ccaatatatg | aaggtacttt | ctacaataaa | atgctcatta | caaagtgtta | aaaaaaaa | 179 |

<210> 1333
 <211> 109
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|-----------|-----|
| <400> 1333 | | | | | | |
| agcagcgtgg | ctaaagtnta | cacacccatg | tncccgccgt | gaagtggagg | accacaagt | 60 |
| ggttcaactg | gagctaaaanc | cgaggcccg | ntagcaggta | gacctttag | | 109 |

<210> 1334
 <211> 236
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1334 | | | | | | |
| ggggagcgtg | gattcttcta | cacacccatg | tcccgcccg | aagtggagga | cccacaagga | 60 |
| ttgaaaagac | aaantcagan | ggattgaggt | tgtctgaggag | acnaatattn | nagacctagg | 120 |
| atcaatcacc | aggaacagaa | gtggnnatac | atgtncactc | atacacanca | catgcactat | 180 |
| aanataatga | gttaactaga | cngcntcata | aaaatcaatt | aaccaattct | acctct | 236 |

<210> 1335
 <211> 246
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1335 | | | | | | |
| ccatctagca | catgggggct | cacanccatc | tgnaatgana | nctgacacac | tcttgtggng | 60 |
| ngnntgaana | cagntacnct | gnacttattt | gnaatcataa | ataaatccta | gngccggccg | 120 |
| gagctagnng | agtgtaccag | agcgagcaaa | agtccataat | tcaattnecc | gcangctgat | 180 |
| gaagcttcgg | nacagctaca | gtatgtactc | atctacataa | aataaatgat | taaattctta | 240 |
| aaataa | | | | | | 246 |

<210> 1336
 <211> 429
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 1336 | | | | | | |
| tgaggttgaa | aacctaaaac | ggatgaccca | ccaattggcc | tgggtccact | gtgttgcgga | 60 |
| agatggagga | ggggagctgc | agagattcgg | ggtttatctg | tataccctca | tcctcctgcg | 120 |
| ataccaagcc | agccagaggt | ggcgctccctg | actgctctgc | ggctcctgggc | agggcaggaa | 180 |
| gctggcgcg | ccgccgactg | ggcaggcacc | acttggccta | gcccgcgtgt | cgctggaact | 240 |
| cgcgaagcac | catcactctg | agttgagttc | cagagactcc | ggcctggtca | ccctgagctg | 300 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttttcctccc | acatcgtcag | ttggcctctc | tcgcaagtct | cctgatctcc | cgccatctgc | 360 |
| ttttcccttc | cttgaccgat | ctctggaact | tcgaaataca | ttcaaccgcc | ttttctgaga | 420 |
| aaaaaaaa | | | | | | 429 |

<210> 1337
 <211> 142
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1337 | | | | | | |
| actgaatgga | gtgtttgaat | tgcgctttgc | gactctgaag | gctgaaggnn | ncnggcngan | 60 |
| acggnagnca | tngnntnccg | tcatnctgg | acatgcttta | ttattntcaa | ggccatggat | 120 |
| ttactactga | aactttttct | tg | | | | 142 |

<210> 1338
 <211> 416
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| <400> 1338 | | | | | | |
| tgagggtgggg | tctttcaatt | agcatctcct | gcgcgcctcg | ctcgcgaccc | cggaccctctg | 60 |
| ctccgcgcgcg | ggaccccccg | agcagcagcc | tanagccgga | agacgaggac | gatgaggaag | 120 |
| atgaggacac | catgacgagg | ctgggtcccg | atgacacgct | gcagggccag | gagctgtcca | 180 |
| cagagcccg | cgggccccct | agtgtcaatg | tcttcacgtc | agcagaggag | ctagagcggg | 240 |
| cacagcggct | ggaggagcgt | gaacgaatcc | tgcgggagat | ctggcgcaact | gggcagccag | 300 |
| acctgctggg | cagtggcacg | ctcgggcccg | gagccacggc | cacgctggga | cgaatgcact | 360 |
| attactgaca | cccgccccct | tagcgtgggg | ccagagtact | ggatatggga | ctgcct | 416 |

<210> 1339
 <211> 245
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1339 | | | | | | |
| agagaaacac | ctatgtgtct | gttctcagcg | aaacatcccc | ccaagtgcct | gcttcagcaa | 60 |
| aacatcctct | cctaagacag | nttcctggaa | aacatcacat | gacacaaccg | agtctccaaa | 120 |
| cgaacaaaag | ccagagattt | ccacttcaga | tatcctttgt | atgaattttc | ttgatgacct | 180 |
| ttgtgggact | tcttaaccga | acaacctcct | gataaagttt | gtgcattctg | gctgaaaaaa | 240 |
| aaaaa | | | | | | 245 |

<210> 1340
 <211> 142
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1340 | | | | | | |
| ctgccctatc | ctacgtcatc | acctgcagct | ggntncaggn | tccaaggatg | aatnggcggg | 60 |
| aatggacttt | ccccctttt | ttccccctc | tttntaaag | cgngtctgcc | attaaaaatt | 120 |
| tgaaccttga | gcaaaaaaaaa | aa | | | | 142 |

<210> 1341
 <211> 221
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1341 | | | | | | |
| atcccactgt | gactcannaa | tacacctttt | gtncctaagag | gacgacgagc | ctgtgagaat | 60 |
| tcccctatnt | cccttccaga | agtcacacct | gtgncgtgctg | ngaacttgag | atgtatnatt | 120 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gnagccccctg | ttgtanatga | agccccattc | tcctctagcc | gaacatgtta | aagcctncat | 180 |
| tctccatgaa | gactgtcatt | ggaggtagaa | ggttttaagg | a | | 221 |

<210> 1342
 <211> 321
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1342 | | | | | | |
| actgaggctt | cttctagcct | tntgcagnac | gtgcctaccc | acacgcgctg | aacctgnntn | 60 |
| accacaacct | gagcccttgg | atgacaggcg | aagcctttcn | cattttgcct | aggattcccc | 120 |
| gatgcncgcc | tgtctctagc | caagcctggt | gatctaagag | gcagggtctc | caagactcan | 180 |
| ccagtaggga | gagctgggcg | aatggatcca | atctgagata | gtgctcctgt | gcgggttnca | 240 |
| tggtnacngc | cacaccncc | ccgctggnga | cagatgtcat | gcgggtcacc | tcactccagg | 300 |
| gctgaggatg | agaccttaaa | c | | | | 321 |

<210> 1343
 <211> 459
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1343 | | | | | | |
| actgagggaa | cagcggcagg | tactgtggcc | tgagcctact | gcgcctgctc | ctcttcaaac | 60 |
| tgccttctgt | cgatngctc | ctgacctgca | gccacctncg | cctccatgtg | ctggcggggc | 120 |
| agcaacctca | gncaccaccc | tcacgcaagt | ccctgcctcc | caccacacaga | atttggacat | 180 |
| agttatgagt | ctctgagctt | anatcttacc | cacctctctg | agcccagggt | ggtggtgatg | 240 |
| ctggacacta | ctgctccctg | gggccaggaa | naacaaagcc | caggctgtga | ggaagccagc | 300 |
| tgggcccaga | actcacgata | ccccctcagt | gctccttgnt | caaagngggg | gtttcttttt | 360 |
| gctttttctg | natgggatct | gcctcttgna | aatggagcta | tcctatcaga | aactgggctc | 420 |
| ttgnctctcc | tatcagactg | agactttggg | aagaaaagg | | | 459 |

<210> 1344
 <211> 215
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1344 | | | | | | |
| actgagttac | aggagaatgc | tgctcaagca | gggtgacctg | agtcataaag | gtggaaagag | 60 |
| agaaccgact | ctgaaatagt | cctcggactg | tcacacacat | gctgcgacct | gtgtgatccc | 120 |
| acatacgtgc | atccaacaat | cattaaaata | aagttagcca | ggcagnggng | gcacacnctt | 180 |
| ttaatccagc | acttggggagg | atttctgagt | tgagg | | | 215 |

<210> 1345
 <211> 446
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1345 | | | | | | |
| gtggggctct | tccaagggtga | tgaagaagta | cggnaaaagc | ggcnggctga | tctgtgacna | 60 |
| cgtgacgtgg | acctgtgtga | ctgcctggag | aagaactgtc | tgggatgctt | ctacccgtgc | 120 |
| cccaagtga | actccaacaa | gtgtggggcg | gagtgccgct | gcaaccgccg | ctgggtctat | 180 |
| gatgccatcg | tcaccgagtc | cggnnangca | cttatncccc | ngncttttag | tgcntntgnc | 240 |
| taggagattt | tantnntaga | ataanagact | ngattnacct | ttgttgctcn | gatatagaga | 300 |
| tactttttat | tntctttgtc | aaaggaagcc | cangaagaaa | agggttttta | gtactgccaa | 360 |
| ggaggccgga | ggatnangca | anagctnnaa | aagacnnatt | nacaaccgtg | gaagagcttn | 420 |
| anaactntga | cttggaagtt | aagccc | | | | 446 |

<210> 1346

<211> 374
 <212> DNA
 <213> Mus musculus

<400> 1346
 tgagctctct tcgccgaatg ncatccaggg aaattccctg ggaacatctg gctccaatat 60
 gatctattac ctggtttagt gcgtgacagt cagtgcctggg ggatattaca cttacaaggc 120
 tttaacatca aagcaagtga gacgtacaga acatgtagct gaaccgaaaag aacaaacaaa 180
 ggccggagttg caaccacttc cagggtgaaaa ggaagagcat gtggcagaag ccgagcaagt 240
 gtgttcagag cctggagaca ctgctgtaaa ggaagctgaa tcggtagatg ctgaggaagt 300
 cccagaggct gcagttgtgc ttccagaaga gtctcaggcc tccgccccct ccgaggtccc 360
 tgccgaagct gccg 374

<210> 1347
 <211> 536
 <212> DNA
 <213> Mus musculus

<400> 1347
 cagagccaga ccacacctta gctccacagc cgctttgaat ttatggatgc agttagctat 60
 ggtgtttact ctccctgccc ctctgtattg ttaacctccc ctcccccaag ctggactccc 120
 cttgaangag ctctttgttt ccccttagt ttagactttt atcagacagc agtgggggtc 180
 ananggtttg agtggcangc ttgcgancga gtctggtgac tgactgtctt ggtgggttta 240
 aagaaaaacag agagggctga agcaccggg gagatgcgtc cccacgcccc tgtaactgag 300
 aaacaatacc actcaatatt ccaaccggct ggggctggan cgatggctca naagttcaaa 360
 atgcttgctg cccttgacga agacctgagt ttggagtcnc acctaaagttg ggcaactctca 420
 accacctgta attccactcc anaagatctg aaacctctt ctggcctcct caggcactgc 480
 actcncatgc ncntaattta aaataaaaata ataaatctnt aaatgcgttc ggtccc 536

<210> 1348
 <211> 400
 <212> DNA
 <213> Mus musculus

<400> 1348
 tgagggtgagg tttaatgatt tacatcgacc aaggaccgcg agcctcggtc tctcgaatcg 60
 gatccgacat catccaacac ttcagtgtta gaattgcaag catgcgctct cccgacctgg 120
 gcaggcactt cgaaaaaatg atgactaaag acacaccgtg aagtaccaag cgaaantnan 180
 agtccttatg ggacagtgac tcatcacagt ctaattccat nctggccaac aagcaataat 240
 gcacatttct aactggaagt caagcaaaaca ccaacacttt cactcttgng cccatttctg 300
 acgagttacg nnnagtgggn accaacactt gcacttagcc ttgcctcagc ttcgagtggc 360
 acaaggtagg accaaccaca ccctaccata atgcaccaag 400

<210> 1349
 <211> 388
 <212> DNA
 <213> Mus musculus

<400> 1349
 gggctctttg gagtatcttg ctggttatgt aagcgacctc gggagaaatt atcctgacct 60
 anacgaggag atgcggtagt gcttcancgt caggatttct tgcgtgtaa caccacagt 120
 ctgatgacaa agagcaagnt gtaatccgca nactgccag ggctgagccg ggcagacaga 180
 aaatcgatcat ttgctgtcga caggcttggt aggttacagc ctctgcttcg ttctgtggtc 240
 ttggcttttc ttcttatata atgacggcgc tgcaagttag ctgagaaatg cttgggttga 300
 aagccatttg cctgtgattg tttttgaaga ctaaaagaag atttatgctc gattaaaaaa 360
 atactgctca cgaacaaaat gaaaaaaa 388

<210> 1350

<211> 338
 <212> DNA
 <213> Mus musculus

<400> 1350
 tgggggaagt acaggnncct cccagacaga aacngagccc aagtcttncc acacctggnt 60
 cctatggaga cctggagacc ggtccccagg agctaccaga tgagatttta ctgggggtgaa 120
 gacctgagggc tataccatgg gcacacagga cacgtgtggg taccatactc tggctattcc 180
 atattataac cattccaaag tgtgctaggt gatgatttta ttaagtccag tgataggaaa 240
 gactgggaac actcaagaca tttatttagt aaaacagtgc tctgtcctag agggttaagg 300
 cacatgtggt aattaaaaaa ctcaaaggct caaaaaaa 338

<210> 1351
 <211> 424
 <212> DNA
 <213> Mus musculus

<400> 1351
 cactgagttt tagaagtaag tttgttagag gctcatctgt ccgaagcagc atgcctggcg 60
 aaaccagcac agcgagaagc gttgctcttc ctccatcagt tctatatccc tggacagaat 120
 gccatcggaa atcttggnga agatactttc ttacttggat gcgngacct tggngtgcag 180
 tggatgtgtg agcanacgct tttatcattt ggctgatgac aatcttattt gggtcaggaa 240
 gtncncagct gcntttanat caaaaagatc acgttggaaa gctacttcag nggaggaaac 300
 agccacaagt ctgagcttgc tgtcagttng ggataaagaa gatggatact ggaagaaaga 360
 atatattaca aagcagatct catctgtgaa agcagccctc accaacagcc tcagtccagt 420
 taag 424

<210> 1352
 <211> 441
 <212> DNA
 <213> Mus musculus

<400> 1352
 aggcagagcg ttcctccact aacttggntg aattatggaa gtactggcag gacttgatgc 60
 tgnccagnagn ggntttacag gatttcatca ggctctgccc aggaagtctc tattcccagn 120
 ttccaaatga gctgcctgtg tggggcagng ngctggacac aaacaccctg gtcttcagnt 180
 gagctgaggt cttgaacccg ggtgggatcc ggcggtgga gatntncaac tacatgggag 240
 ntagatcttg tctccaggat ccttggtcnc tgncaaagnt accgcctca cagtcccacc 300
 ccacccccag gagaggtgtg tggctatcag tcatgtagct aacagcacca agccttctna 360
 catgcaaata atgttcccc caaactctcn gttcaagcca gtgatagata cctgctgtcg 420
 aacctgaat caccctaaa t 441

<210> 1353
 <211> 296
 <212> DNA
 <213> Mus musculus

<400> 1353
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 caactctctg gccggggngg gccactgtta ccactctagg actggngcca gcaggnccac 120
 aacattatgt ctncacgggg tcccaccant tntgggtcca cattncaata accaaataga 180
 tntgccatgc tcgaagtttg ataacacaat acccagtaac ccagnaaact caatgcttat 240
 agttaaccaa tcagatttat atatcaataa actctcaata cactagaaaa aaaaaa 296

<210> 1354
 <211> 272
 <212> DNA
 <213> Mus musculus

<400> 1354
ctggcggtgc atggaatcca nattegtgcg gnggcangat gcttgcggt gactanatcc 60
gcgangggcc ggnngctccg tgongcccn anagtntga ccaaacgaag aacacagaca 120
ntgaaaagta agcaggcttt aaacccttag ntctttttgn ntagctgcc ttcgaanctn 180
gccttttcan agtctgcnaa agagtttctt agtnnganat ctttncaatg gagtattctt 240
tctgnacaat gtttaaacag caataaatat ta 272

<210> 1355
<211> 220
<212> DNA
<213> Mus musculus

<400> 1355
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ttcccaagtc atnggggggn gatattccct catccgcagc tccaaagaat tacatgcaga 120
ggaaaccgtg ggggttcaggg gcaggggtct gtcagttgtg ggttctttta ctggattctc 180
ttanagatgc tgagttgcaa tgaagttgga ggcttgaaa 220

<210> 1356
<211> 306
<212> DNA
<213> Mus musculus

<400> 1356
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ctgnanntgn ggactcctta ggtgangnta gaatttacca ggacaccact ctctcttttt 180
ctcctttggc acccgcttgg agggcccgatt cctctgaaga ctatcttgga tttcttggga 240
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aaaaaa 306

<210> 1357
<211> 179
<212> DNA
<213> Mus musculus

<400> 1357
acccagggga tgctggagaa ctgaaactga gtccatgcn agatgctgag atatctttcc 60
agnccctggc ttanaagntt toccanaaat ccacgctact agcactggat ganagatgtc 120
natctatcta gtncctttta taaatccctac gcnnggtgct tgggtttcca cagcataaa 179

<210> 1358
<211> 323
<212> DNA
<213> Mus musculus

<400> 1358
agccatcgtc tccagcccaa gagatcactc ttgcattgtg acaccatgca atgcttnctg 60
ggcctctcct ggncttcact tcacagagaa atgcacocaaa gaacttnttg tantattctg 120
gctgaatcct gccgcttctg gttcttgcca attccgcaga atcgtacgtt cctgctggat 180
ccagcgctgc tactgattcc cgtgtggngt ttgctatttg actggaccgc tggatcctg 240
acaaccgaag agctnngtt gcccaaaaaa ctaaaatgnc ctacagactc ccttttccta 300
ttaacctttc ttccccaccc cca 323

<210> 1359
<211> 189
<212> DNA
<213> Mus musculus

<400> 1359
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 ctgggcgcac gagtntgccg gctnatcgaa gcnggtggct ccctgcacaa cccaagaagc 120
 ggctggatcg nagagcactc tngatctnag caccctcgg agacttnagg cncacattgc 180
 acgtggcac 189

<210> 1360
 <211> 442
 <212> DNA
 <213> Mus musculus

<400> 1360
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 tatgaacaat gctatctcaa agcannacca ccaagnaagt ngaggagttt gtntcaaaact 120
 taggttaaac gatttgagga acagctataa anangaccgn tggaaatngac ttccttcagn 180
 cttttacccc agccgtccag ngttatgttg gaagaggacc atnangtggga agaatcatgt 240
 gccgttaaaa acaacaagga agcttttagn gtngnaggaa gtgtcctgna ttttactaat 300
 ttttgcttg atnaantggg gcaaccgnta ctaaataaaa accctcagct tacggaagga 360
 tgggaaatac ccaagtatcc tacatngtga atgaagatct tttatacatc ttgccactaa 420
 gtncaccttt aaaaaaaaaa aa 442

<210> 1361
 <211> 391
 <212> DNA
 <213> Mus musculus

<400> 1361
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 cncctcctgna gactaccttt naccataacg acttngatgc tgagagaaat gctgtgacta 120
 gcanccattt tggagttgac tgggatgtgt tctaaagttt gaatgccaaa gacaccacag 180
 agggcaccat ctctacatct gagggaccca aatggactcc actggaagtt gnccactcac 240
 tgntgggggag ggcactgcag ctcttggtcc ctggttttcc actttacatt tcttatttga 300
 agtaatgcat atatcatata atttgatata ttttttgatt attctaattt acagaataaa 360
 aatacagaat ttcttatcat caaaaaaaaa a 391

<210> 1362
 <211> 350
 <212> DNA
 <213> Mus musculus

<400> 1362
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 ctctngaggt ggcattggac acggacgtct ttnaaggaga cttanatcca caaaacggat 120
 cactcatctc acacnatctt gtttagagtc agngggngca gctgggcccng tntgtntggn 180
 ggcaggacct gtngaaanc caggctgctg cacagcactc tgcccttanc tgccctgnna 240
 acagcctagg naacnaccatc ctatntgcng cacaagggcn gtgaggtaac cctggatctt 300
 atnoccacag cagggcgagc agccagagaa gctccagctg ctgtaatgta 350

<210> 1363
 <211> 178
 <212> DNA
 <213> Mus musculus

<400> 1363
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 ctttacaccc tggttatnac anacaatgaa aaggcagagg aagctngaag cnttccttac 120
 ccccggtttt ggcagnnan gatctcgtaa tgaaccagcc ctctgcagtg tgactatt 178

<210> 1364
 <211> 155
 <212> DNA
 <213> Mus musculus

<400> 1364
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 ggcctaggan atggctcgcc agataaaaga acagcgctct tcacattcct gtgttcactc 120
 acaacattag aaataaaaat taattatgag ggagg 155

<210> 1365
 <211> 202
 <212> DNA
 <213> Mus musculus

<400> 1365
 aacacagacc gacccaacaa tgaacagttt caagggacac cagaatgggt gacttggttac 60
 gatactgtan tgggtgcttca ggaaggaag agacagggag gacccaagct gcagttccag 120
 aattacaac tgagttcaat gacactagcc ctctagcaag aggcagggat gaggagtgtg 180
 cataaagtgg gggtcagcac tt 202

<210> 1366
 <211> 298
 <212> DNA
 <213> Mus musculus

<400> 1366
 ttgtggggag cgtggattct tctacacacc catgtcccg cgcgaagtgg aggacccaca 60
 aggtcagggt gatggctcag aaaacaagac attcacagat agaggatgag gatccctgaa 120
 actcttgtga agacagaaga taaagaacaa cacaagctg actttggacc tccatattgtg 180
 tgctgtgaaa tactcacaac cctcacagat tgattaaaga agtatcacct agcacaccat 240
 gaatgcttgc aggtctggact gtcaatcaaa taaaaatagt tagacatata aaaaaaaa 298

<210> 1367
 <211> 192
 <212> DNA
 <213> Mus musculus

<400> 1367
 ttgtggggag cgtggattct tctacacacc catgtcccg cgcgaagtgg aggacccaca 60
 agntnctgnt ttctgacctg cttgagttcc atgcagtnan ctacctttgg tcatgaacgc 120
 ncattgctgc cnatcnggac ncgtgggtan caccatntgn cntnccgtgn nacannaacc 180
 atattggata cc 192

<210> 1368
 <211> 150
 <212> DNA
 <213> Mus musculus

<400> 1368
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 ntgaattcta ccctgtgtaa gtnagtgacc ctggctgagc tttgtggacn gagcaccgtg 120
 acaccggggc agatcctaga gacaggtaga 150

<210> 1369
 <211> 125
 <212> DNA
 <213> Mus musculus

<400> 1369
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 aagntcaca actaccnga tctnnntang cataggnenn tcntaanctg ttctaacctt 120
 gacta 125

<210> 1370
 <211> 537
 <212> DNA
 <213> Mus musculus

<400> 1370
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 gcagntagct nagaataacc cgctccatcg nntaactnag angncncgc ncttgctnnc 180
 tntnctntgt cangaagnan naggaccnag aacnaccact tncccaaagg angctctcnn 240
 ntttgagacc nannnnngtaa ncnгааacan gaanctccna ngacctccac acggcgggag 300
 gaagacaggc gctctagcat cgaatgtagc cctgagcccg aactcgggaa ctctatgacc 360
 aactgggact tccgtttccg cccccctgac gacgaggcga cgggttantg cagcgagtgc 420
 attctgttcc tgggttagctc tgagcgaagc ttcttggagg gccgnactcn agcctctgtg 480
 ccgagctggg gtccctgcct gacgccggnt gccatgggag atcaagccag gtcccttt 537

<210> 1371
 <211> 156
 <212> DNA
 <213> Mus musculus

<400> 1371
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 tgatgtccca gtgtattggc cttggatcct gacgcggctg cggtctgtat tcatcttgtt 120
 gttgtcaaat ttcatttaac tgcaaattaa aaaaaa 156

<210> 1372
 <211> 299
 <212> DNA
 <213> Mus musculus

<400> 1372
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 agggcttcat nggacctgng aactgcccc ttgnntctgt gatcccagnc canagacagc 120
 ctttcnagaa nnactgtngc aantgcacan angaannatc ccacatccna accagnctgc 180
 tgaggaaatt caaaatagtg accgtgaccg gaagaaccca tgtgtctttta gtctcctttt 240
 tacttttgaa tcatttccca agtttctttg ataaaaacgt ggtaaaaacat acaaaaaaa 299

<210> 1373
 <211> 239
 <212> DNA
 <213> Mus musculus

<400> 1373
 ttgtggggag cgttgatttc tctacacacc catgtcccg cgcgaagtgg aggaccacaca 60
 agggtcacca tgnctacagg gtgngtaacg ccgaagaagg ctncacncc gnaaanttgt 120
 tgntnaacag ngcgaatcat atacacagg tgnatttttt accggacaag cttanancag 180
 anctgtttnc gntccnaaaa gatggngtcg nttttgcctt cantaaagaga tggtaggtc 239

<210> 1374
 <211> 381
 <212> DNA
 <213> Mus musculus

<400> 1374
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 ggactcgncat tctgantgca nanangctgg cctgnaacgc cannnatnan aactttgaan 120
 actgtgagnt cggccacact ggagtgtctg nnttacaaga tnggagctgt ncctgnncgt 180
 gctcgctcna tcntntnntn natttanngn tctagnctg tcaatacgac ntgtactcc 240
 atgngcagtg aanggagctc tctnntngag ccatcttctt ttttcacttc ccactaccaa 300
 aactatcctt gattgtcaag ggtcattana aaaggcaaac acccaaatat taagtatata 360
 gattgactag taaaaaaaaa a 381

<210> 1375
 <211> 167
 <212> DNA
 <213> Mus musculus

<400> 1375
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 ggggnnattt cacttgact tcttccanctn gagctcngan acgnacctgg ngntcnctct 120
 accncancag acctccagct ngccgtgcna actgcttctt catccca 167

<210> 1376
 <211> 316
 <212> DNA
 <213> Mus musculus

<400> 1376
 gagccgtgga ttctttctcac acccatgtcc cgccgcgaag tggaggaccc acaagattct 60
 cacntncnctn ctgattggca cgccgatcag acgaacaccg gnttaangng cncactangg 120
 atanggataa ggaccgggaa aagtctaagc atagcnaacng ngaacataat agattctgna 180
 nngaactnca gagagaaaaga gaatanccccc cccactgcng gccctcccc totgcattga 240
 gacaaacctt tgganggana caaggaaaga cgaaaggagg aaaagattag agctgctggg 300
 gatgcaaaaa aaaaaa 316

<210> 1377
 <211> 141
 <212> DNA
 <213> Mus musculus

<400> 1377
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 canatngnag ctgccctgga ggacctgan ccctgnntgn tcaggacgct ngagctgnt 120
 ggtcattcca ttctaacaag c 141

<210> 1378
 <211> 224
 <212> DNA
 <213> Mus musculus

<400> 1378
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 atctgtgctt ancctgagac catngtattg gatncccttc ccaccttgag gannntgggtg 120
 gaccagttna aagcgtncac ttgttnatca gtgctgcacc agcatactnc tccctctacc 180
 anntggagaa ctcttgcaan tatgaccac cactaccag ccta 224

<210> 1379
 <211> 119
 <212> DNA
 <213> Mus musculus

<400> 1379
gtggggagcg tggcttcttc tacacaccca tgtcccgccg cgaagtggag gaccacaaag 60
accttgatgt gaaantncaa gannantnca aactttgntc ttcactggac cctgggaga 119

<210> 1380
<211> 402
<212> DNA
<213> Mus musculus

<400> 1380
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antcacnann ngcagcatnt tactatgaac tccctggngt ntntnncagn gcctgcgatt 120
aanagcttac caaagcntac agtgaagctt gccctgaagn ttcaccnnga cnagaactgc 180
nctcctggan caacanangc cttcaangga ntaancattg cctntgctat nctnntcnan 240
tgatgnaaga gantgcntta tgatgaatat gganatgagc aggtganttt cactgncct 300
cgagccagat cttatcatta ttacaaagac tttgaagctg acatctntcc anaagaatta 360
tttaatgtgt tcttcggagg acatttccct tcaggaaata tt 402

<210> 1381
<211> 130
<212> DNA
<213> Mus musculus

<400> 1381
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gacaggaanc tnagtanta cctgtatgtg ctcacccgtt acggnatgtg ctgtaagact 120
gggaggactc 130

<210> 1382
<211> 469
<212> DNA
<213> Mus musculus

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tntnaatgng canatgcaa tcacaaaaga annnggggaa gtcattggga aagttctgga 300
ggaagccagg tttgntgtgg cctttcaccc aggcaatgaa ggacacagct caggtgcagn 360
ggccacatgc aactgggaag atctttgtcc agagtcaagg aattgcaaca ataccaaatg 420
ccaactttaa ctggaacacc ttcctgcagc aatcagggag tggccctat 469

<210> 1383
<211> 141
<212> DNA
<213> Mus musculus

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acatgactgc cttctttana angctncgaa ctcattngnn naaaacnact ggctgngctc 120
ngnntgctga catggcggag g 141

<210> 1384
<211> 128
<212> DNA
<213> Mus musculus

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gcgagggg 128

<210> 1385
<211> 323
<212> DNA
<213> Mus musculus

<400> 1385
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ctgttcacgt cagcactaag gaagcagatg gcaatgtcac aggcacagga ttatgaatgc 120
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nnagggctgn acanattggct catatgggtg ngagcactgt ttgcccttgc gaagggtcctg 300
agttcataat ggccagcaac cat 323

<210> 1386
<211> 392
<212> DNA
<213> Mus musculus

<400> 1386
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cgcccctggg acatcactag gccctgaag cgtgcgctca gcctccaggg acccctgtgt 180
cccgcattac gcctgcgcct gacgccgcct ccggacctgg ctatgtctgc ctctggcggc 240
gcacagctgg aactgcgctt acgggtagcc gccggcaggg ggccgccgaag cgcgcctgctg 300
caccgaagag actcgtgccc actgggtccg gggcgctgct gtcacctgga gactgtgcag 360
gcaactcttg aagacttggg ctggagcgac cc 392

<210> 1387
<211> 129
<212> DNA
<213> Mus musculus

<400> 1387
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ggggccactg cccccctgcc ccagccaagc caatgcaccc agaaaataaa ctgaccaatc 120
atggcaaaa 129

<210> 1388
<211> 398
<212> DNA
<213> Mus musculus

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caggcagaag aactccaagg agtgctctca gaatgacctt ggattccccg aagcgttgga 240
agccttgaag aggtcaagc tctcttctgg gtaccaaagc agagatggca tgtcatagga 300
tttctgactt ttcaacgtct ttgttggggc aggggtctgt ctatggaaga aggtacatta 360
ataataaagc ttgcattcat agaatcgaaa aaaaaaaaa 398

<210> 1389
<211> 397

<212> DNA
<213> Mus musculus

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agtaaaatat ttaacatgag ctcttaccat atttcatatc taaacatata ttgttggaag 180
ttacttcata aggnittcttc tagaacttaa cccaaatcaa gaagacagct caacngtaag 240
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ttcngtgtgt cgtctctggg tgccatgca cacacacaca aacagaaatg taatttggaag 360
aataaaagaa gtaccttagg cctgggaaaa aaaaaaa 397

<210> 1390
<211> 216
<212> DNA
<213> Mus musculus

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tttgcctcttc acttgaaatc aagtgtttga ctttttataa aagtgaacc ttacccgaga 120
ggagtttctt atctctggat ggcagntgat tcaactgtaag ngntctgngg cctaactagn 180
gagagatgct tnanataaac taagttttta tgagtt 216

<210> 1391
<211> 417
<212> DNA
<213> Mus musculus

<400> 1391
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aggaagccaa ctactgtgt gacttgatac ttacatacga cggggagtcc cgagatctgt 180
ctacgctcat ctcaagtc gtaatcaata tcatctgtac catctgcttc aacatctctt 240
ttgagaacaa ggatccgata ctgactacca tacagacctt tacagagggt attgnnggat 300
gtcctggggc acagcgatct ggtggacata ttcccgtggn tgaagatttt tcccaataaa 360
aacttgaaa tgataaagga acacactaaa attcgagaaa aaacactggg tgaaatg 417

<210> 1392
<211> 232
<212> DNA
<213> Mus musculus

<400> 1392
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gggcanaagc tognaggcct catgangcct ggngtttctg caaagacggn ngccnacact 120
tnctcagagc tctggctagc cttnctaaaa nagtctgna agttgaaagt cccnaacctg 180
ggnggacnca gncangnctg gccanaonta cagagcttgc cccatatgat ga 232

<210> 1393
<211> 257
<212> DNA
<213> Mus musculus

<400> 1393
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cctgaatgac acctttaagg aactggagtt tcttancatg gccaacagtg gagttgagtt 120
ccttgggccc gcttcccanc ttgaataaac tccggaagtt ggaacttagt gacaatataa 180
tttctggagg cttggaagtc ctggcagaga aatgtccaaa tcttacctac ctcaatctga 240

gtggaaacaa aataaaa

257

<210> 1394
<211> 130
<212> DNA
<213> Mus musculus

<400> 1394

| | | | | | | | | | | | | |
|-----------|---------|--------|--------|--------|--------|--------|---------|--------|-------|--------|------|-----|
| gtacaaagg | gaaacag | ctaa | anaaac | ctatat | aggaat | ctca | nagctac | tag | notac | nttnn | 60 | |
| ggnagaac | at | acaatc | agaa | gaccat | cttc | anaant | ncta | gaagtc | atgg | gaagga | actt | 120 |
| ttattctg | ca | | | | | | | | | | 130 | |

<210> 1395
<211> 164
<212> DNA
<213> Mus musculus

<400> 1395

| | | | | | | | | | | | | |
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| tacctcg | aga | agaggc | gata | ctacgg | gaat | caatct | aatt | tataaaa | acca | ctcac | ctatg | 120 |
| tacacag | acg | ctggct | gaat | catgc | acac | tgaac | gagg | acga | | | | 164 |

<210> 1396
<211> 329
<212> DNA
<213> Mus musculus

<400> 1396

| | | | | | | | | | | | | |
|----------|------|---------|------|----------|------|---------|-------|--------|------|-------|--------|-----|
| cttataaa | ag | ctgttgg | ccc | tgctgt | gtt | atccaaa | aac | agtttt | ccgg | agaaa | ctttt | 60 |
| gaagaaa | gaa | ttgattg | ctc | tgggaa | atgc | gtnttg | ccag | gtttgn | tgga | cgcac | acaca | 120 |
| catccgg | tgt | ggncng | ggtg | aaagag | tcca | cgant | ttgcn | atgaan | gtaa | ctgga | acgga | 180 |
| cggcag | caaa | tcaata | cagc | cgcaaa | cagg | ggaat | gtctn | tactag | tgat | tgcnt | aanng | 240 |
| gccaac | ctat | gccaca | tatc | ttttta | atgg | gtttat | cttt | acttgg | ctta | ataaa | agaaca | 300 |
| caactg | acca | ttaaact | taa | aaaaaaaa | | | | | | | | 329 |

<210> 1397
<211> 382
<212> DNA
<213> Mus musculus

<400> 1397

| | | | | | | | | | | | | | |
|----------|----|-----------|------|--------|-------|--------|-------|--------|--------|--------|--------|------|----|
| ctgagggt | g | tcctgg | actt | tgtgag | cacc | tctca | agttc | tgtgat | c | gga | tactgg | gtag | 60 |
| cccactgt | tc | cagagg | tcta | cacatg | cact | cactgt | gacg | gnaagg | gaacc | tccttc | ccatg | 120 | |
| gggccact | ct | acctgt | gcc | tgaaa | atcca | tttgag | aa | aggcct | gcat | tctgca | aa | 180 | |
| tctgcact | tg | tttccaa | att | acatt | taata | aagaa | attgc | aggta | cttca | gctgaa | attg | 240 | |
| aaggagag | | ggaagg | ctgg | aacat | cagca | gcctac | tggg | gcttt | catac | ttact | tttca | 300 | |
| ccttagat | ga | ccctcta | aga | gttttg | gatt | ttggct | gagc | taaaa | ataaac | ttctcc | aa | 360 | |
| gttactgt | ga | gaaaaaaaa | aa | | | | | | | | | 382 | |

<210> 1398
<211> 103
<212> DNA
<213> Mus musculus

<400> 1398

| | | | | | | | | | | | | | | | | |
|----------|------|------|-------|------|-------|-----|-----|-------|-------|-------|-----|----|------|-----|-----|-----|
| gaactgag | gt | tc | ccagc | agt | ctac | ctt | gtg | aaatg | tttta | ggcta | aga | ag | agtc | cag | caa | 60 |
| cagcta | actg | agag | ac | ctga | ataaa | agg | gt | aaatt | aaaaa | aaa | | | | | | 103 |

<210> 1399
 <211> 427
 <212> DNA
 <213> Mus musculus

<400> 1399
 tgagaaatgg aggcaaacga ccattttaac ttacttgccc ttctctctgc accagctgcc 60
 tcaggactga aacctnttcc ttctctgggg gagggcctct acactaacgg gtctcccatg 120
 aacttcccc agcaagggaa aagtttgaat ggggatgtga atgttaatgg cttatctact 180
 gtatctcaca ctactacttc agggattttg aactctgctc cccactcctc tagcacctca 240
 cacctccatc accctaacgt ggcctacgac tgtcttttga actactcaca gtacccatct 300
 gccaatcctg gcaacaacct caaggacca ccccttcttt ctcatgtccc tgggggacaa 360
 taccgcgtca acggtatcct tgggggcaac cgacaacctt catccccaag tcacaacact 420
 aatctaa 427

<210> 1400
 <211> 227
 <212> DNA
 <213> Mus musculus

<400> 1400
 tgctatcaat tatctactga gacccagnga acngntaaaa tcacngtcaa agagaanagg 60
 gtggagagag gaggaggggg aanagcttan ttggggccaca ggaagacagg aagcantcat 120
 ttacttataa aagaagtctg cattcattca gcgggctgcc tttgtcttct tccaagcctg 180
 nctgaaaatg ncatacttct gcttgagac tttcaacgaa aaaaaaa 227

<210> 1401
 <211> 508
 <212> DNA
 <213> Mus musculus

<400> 1401
 gactgaggaa aatactacat agctaccatg gccttgatca ccgcctccac agcccttacc 60
 atcatggtga tgaatatoca cttctgtggg gcggaagccc ggccagtacc acactgggcc 120
 aaggtggtca tcctgaaata catgtccagg atcttgtttg tctacnatgt gggtgagagc 180
 tgcttagacc ccgctcacag ccaggagcca gaacaaatca cgaaggttta tggcaaactt 240
 ccagggtcca acctgaaagc atccagaaac aaagaccttt ccagaaaagaa ggaactgaga 300
 aaactoctaa agaatgacct aggggtaccag ggtgggatcc ccagaatac tgacagctac 360
 tgtgcacgct atgaagcact gacaaaaaat attgaatata ttgccaaatg tctcaaggac 420
 cacaaggcca ccaactccaa gggcagcgag tggaanaagg tcgccaaggt catanaccgt 480
 ttcttcatgt ggattttctt cgtatggt 508

<210> 1402
 <211> 408
 <212> DNA
 <213> Mus musculus

<400> 1402
 cggtttccaa cttggacgag gagagtcat ggactgtcca ctacacggca ccatggcatc 60
 agcaagagaa tgtgttcctt cccgocacaa gacccccctg tgttgaggac ctgcaccgcc 120
 aagccaagct caacctcaaa tcagtgtctga ggggaatgtga caagctgagg caagatggct 180
 gccgaagtcc tcagtactat tctcagggac ccacctttgc agccggctcc agcccctgcg 240
 acgattatca agatgaagac acagaagcag accgaaagng ctctctctct tcatctgaag 300
 aanaaagatt tatcggaatn aggagacctt naaaccccan cttaaggnga ctttctccga 360
 ccttcatact cagacaaact gggaccaagt cctcgccgct gccaacac 408

<210> 1403
 <211> 199

<212> DNA
<213> Mus musculus

<400> 1403
tacagtcaga ggagggtgc tgtngctgtc aggatggctg nggancanga ctttgccan 60
ctgtgcnggn tggncacaca gccctnccac tcccactgtg gtcaacaata cctancngaa 120
gcacacagna ctcccaggcc ctgctccggg gccngctggc tntncgagac agtgnggato 180
ctctttgacg tttccctgg 199

<210> 1404
<211> 246
<212> DNA
<213> Mus musculus

<400> 1404
tgcaggacag acagggggna gangtcnagg cnncaagtct actggncatn ttggctctaa 60
cctgacggcg cagtcatatg caagaaggac aacggaaggt taagttcttg cagagcacia 120
tggcccttaa tgcctttaat ctccaggcagg cagagctctg ggagtttgaa gccagcctga 180
gctacagacc aggacagcca gggctatata gtgagacctg tcttgagaaa agcaaaaagaa 240
aataaa 246

<210> 1405
<211> 248
<212> DNA
<213> Mus musculus

<400> 1405
gaaccccagc tccctccccc gtggcggcgc cgactcttac tggacganct tggctggato 60
cccattggtt ncatanacca ncgcccgcac ccngacggc tcaaagagag cggagtagga 120
ggatgtggtc cggccgtggc ggnaccaagc ctccaggaga cccgcaagct gaggtgcccg 180
ggctgcgcgc ccttgtcact cgttggtga ccaacatgct ggttcagca ctggcagaat 240
ccggcgac 248

<210> 1406
<211> 162
<212> DNA
<213> Mus musculus

<400> 1406
tcttgttcat ggccaggncn caagacgcgg gacaagcctg tatgtnagat gcentntnn 60
ngaaacctga gctntgccta gaggantggc cttcagtga tcggatgana gcaangagan 120
cgaangggac tggccatgca ccccggggtc gtcaaaaacaa ta 162

<210> 1407
<211> 214
<212> DNA
<213> Mus musculus

<400> 1407
gactgaggaa caagatcacc aangacctgn gttctttgtg gttnggaacc nattatttan 60
ccacatntga gcctcagtn tccctgntgg gaaactggna ctaanacttc ntatctactg 120
ggctgctect aagctaggtg gaatngtcac gangaaggan agcatgacag aacaggagga 180
ctatntgtca gattccttca ttaatgttca agaa 214

<210> 1408
<211> 244
<212> DNA
<213> Mus musculus

<400> 1408
gctgaggttag tagcctgggc acaggccata nttacttctt gnggaactct caaangncgn 60
acaggaagcn tggctnngct ccataaacct taccaccgag caatacagtg ccttcccttc 120
ggcatttgca agtctgcagn anggacctnt cgtgcttctt tcctctctta ccctgggcca 180
ctcctggaaa gngaggntac tcttcccagt tttgaggtat gctgacatac ctcaaagtat 240
taaa 244

<210> 1409
<211> 188
<212> DNA
<213> Mus musculus

<400> 1409
tacttttgtt ttttttactt ggcttnggca atngcaaagc aatggctggn aaaatntgcg 60
gggttcacnc angaatttcg gggacttgag agttcctcag nttaataann agtaangctt 120
gttttcagtt tcagacctcc cgaagctacc taagtttgaa aaagcttgag ctcaagtga 180
aaaaaaa 188

<210> 1410
<211> 412
<212> DNA
<213> Mus musculus

<400> 1410
tcogtgggtgc tttatctggc tgtgncactc atggacccca ggcgtatgng actactcagn 60
cccatntctc acaggngagc ccanggagga acaaggcagc catggttnac tcangccgnc 120
ccactccggc gctgaanaca ctgnttggtg ctgnagcccc tgctgcccgc gactgtcgt 180
gattgccgcc gctgagttcg ncgctatgat caccactgtn cctggatgga gaactgtgtg 240
ggtgaacnca nccacccgct ctttgtggnc tacctgncac tgcagctggn agttctgctg 300
ngnggntctg gcttggcatg gtatggcctt cagttgttac agccctggng gatgnggctc 360
cggtaacctg ggctgctgat caccaccttc ctgctgctgt ccttcttctc ga 412

<210> 1411
<211> 499
<212> DNA
<213> Mus musculus

<400> 1411
aactgaggag ctgagagccc tgaccccagc actcctgaac cctctctcat ggccctcagac 60
atctggctca gcatgggact caaacaacag aaattaagca tactgaaacc ctaaggagga 120
tgtgtcatac tacactctac acaactacaa agtgtcaagg aaagccgggc ctctggggct 180
ggcatctgta cacttttcta caaacggatt ctttgtggct gcagaatggc tattaccttt 240
ctggggctag tgctcagggt acaagcttct gtgaaggata tcttcaaact ccttgagact 300
gcacctgggt gccgtggata acagcagcag gaacctgatg gctacaggtc tggaagagca 360
gctgtcagga tcgggagaag ggatgctggt ggccaacaca gtccctgcgtt ggaaagagcc 420
tagttttctc ggctttgtgg ggtgtggtcc atgctgntcc tctttagtat ctgcgaccat 480
ctgtgctgga aggtgcttc 499

<210> 1412
<211> 273
<212> DNA
<213> Mus musculus

<400> 1412
ttttctcttc catcctctc tcccctnagg ctcttttccct ctntttctng gncccccnnn 60
nontgocctg nttntcctgc nncntcaagt tcatgcacn tgcagactnt gaangctgaa 120
ggtaacggcc agtgacgnt tccatgggtt ttgtcttcgn ggacatgctt tattattttc 180
aaggccatgg atttactact gaaacttttt cttgattgcc ctttaacaat ctcttctc 240

aaataatata taattataag taaaacaaaa aaa

273

<210> 1413
<211> 558
<212> DNA
<213> Mus musculus

<400> 1413
ggtaccctcc gtggaatatt cctcccagca tcagaacgaa tgtggtanga caagacttgg 60
aatggaggagc tgggtcccaga atgggtctgt ttgggatgtc anancagaat aacttctctg 120
tgggcttgac tgcccttttggt gtgggtgtctg gagatcaaac ccagagcctc caagactcac 180
tctccogtcc gcccgccaag atnccacctc atccgtcaag gggctgattt tgactanctg 240
gttcagtgct gtcatttaca gaacccttgt gtgtgacttt cagtcagtcc cctccttcca 300
gcaccccgga aaattgggca cagtagaaaa tgnatctca gcagttgata agcaagtggg 360
tcanaagctc ggaatcacct tgggtctacac aaaggagtna gaaggncagc ctgggcttca 420
tgaaaacccgg tcccaggaat ctangagaag aacaagncaa nacgaaaccc naacctgttc 480
tctccgttct gtncacttta tccctcagtc ctcagaatct cccgantctg aacctcttcc 540
aagcatgtcc atttctctg 558

<210> 1414
<211> 468
<212> DNA
<213> Mus musculus

<400> 1414
gaactgagag aatgggttttc tgaaagcaat aggactgcag atgttaaact gaatttctga 60
ctgtccagga ggaacccggca tggaaacccgc atgggtacttc ctgctgcgct cttcacactt 120
gccagggccaa ggttctgtta cctcaagatg ggggttagtt tcaagagtag ctggagggct 180
tgtttcctga gtcatcttct tgtgagccca tgctctgtga aggagaaagc aaatagtngg 240
tttgtgacca actctatcaa gaggactctt gtgaaagcag catgccagct cccagcctg 300
tctctgcagg aactaccaca gaacaacaac aggcaacctg ggcccttccct aagcacactt 360
aaaggagtgc ctgaacatat cttaaaagggt atttcttggg aatttatggg aactgggttt 420
caaggacaat gagcaacttc acatttaata aatgaaccaa gttcttgg 468

<210> 1415
<211> 751
<212> DNA
<213> Mus musculus

<400> 1415
gtggaagaag acagcgattc agagacctat ggagaagaga atgacgagca aggaaathtt 60
tctagaagaa agattgtctc caactgggat cgctatcaag atactgaaaa ggaggtcaat 120
ggtgaaaagtg gagaatctca gcggggcaca gacttcagtg tctctctgag ctctgcaggg 180
gactcctttt cacagttccg atttgtctgan gagaaagaat gggatggnga aacttcatgt 240
ncaaaacaga attnancact ctacgtggac agtgagtcac tggttcgagc ccttgagcag 300
ctgcctcttg cagtccggct taatgttgc tanaaattga tccagaccac aattccttta 360
gaactnncac aggtgaaacc aaggagaaac gatgatggca aggagctggg catgcattta 420
aggggaccca tctctgagct cagatctgct gctggtgctt gccccaggtc tctgggcana 480
ggcagtctaa ggcaaaagccc tttanaaagg tttgcagaaa gcacctacc caacacagtc 540
agtggcgagac cacctggaag aagaactana tatgtttgct tgcatttana atnccactgt 600
gccagaang aaggcaatat nntctccaga cccaggacat tcttngggna ccnaggaaacc 660
catnaaaaaa gnattgggnc nanggtntn cccaaggaaan ggaaaacnag ggtnccttgg 720
aaaaaaancc ctttttttgt ggaaccccc g 751

<210> 1416
<211> 389
<212> DNA
<213> Mus musculus

<400> 1416
 cactgaggta accatgatga tgacaaagga tactgctgng actctcactc cctttgagga 60
 caccctgact cggatgcttt ttggccggcg gcagcagcag cagtttnat cnagtgaaaa 120
 gaaaactgaa gtcaaaccgt ctccaatgg ttctgcctca agtgcacga agcggggagc 180
 agagccttog ggtgggtgcta agagacacgc caagaaagaa gactgagggt cgcctgggc 240
 gtccggaggca ggaggaggag ttactttctct cagagtgtgc ccgtgggttct gtgaatgatg 300
 tgagagagcg cttatgtgta agggtggagg agacaaaaga ggaagtgtct tggttcaggg 360
 acaccgcgtc gcttttctgg gccgtaact 389

<210> 1417
 <211> 190
 <212> DNA
 <213> Mus musculus

<400> 1417
 gaactgagga gtcttactat atcgctcctg ctgttctcca cctnccgnga tcaaactgnc 60
 cagctcagct tccggaatcg aagggaanat agatgtgtgt gngctaccca cctggcnagc 120
 cctaaagttg agatgtngaa actgtgggtg cactgaatgn ctgttctact aaagagtgtt 180
 gttcttctga 190

<210> 1418
 <211> 337
 <212> DNA
 <213> Mus musculus

<400> 1418
 tcatcatcat catcangang tggataaaaag tatgggncga cccaagtnaa ataaacaggt 60
 atntaggatn agaccttnan gnggnagcng gggtnngccn caccocntgc cagcaagccc 120
 ccggnaccca agaccccat catcgaagaa gaacagaaca actcagcaaa caccagaag 180
 catccttoca gaaaaagnga actgaagagg ttctatacca ttggttaaan taccggcaan 240
 agtcccnaca taatgaagag caancanatg caaatatttt tctcacactc ttccgnaatc 300
 tgcttntaca ctgaaaaaga gcctgtctgaa ttaggaa 337

<210> 1419
 <211> 234
 <212> DNA
 <213> Mus musculus

<400> 1419
 gtcaattatg gaaagggctg atgaacgcta acagcgcttc ccactcccc agctgaaact 60
 atagaggggtc agaagcccca aactgctgag ctctgcacac agtggggagga gtggctgtcg 120
 ggaggggaag cagagaatgg ctgcacaaga gaccctggct tctaacaacc agctcaagag 180
 aagttcctag tgattaaatt aataaactga gctcaacaaa ttgaaaaaaaa aaaa 234

<210> 1420
 <211> 151
 <212> DNA
 <213> Mus musculus

<400> 1420
 tctccatcaa agcatctaac acaancctaa atcctaatac cctgcctta catcctgttg 60
 ctgagatgcc atgtgattta ctgtgatttg tgttctccat ttctccaatg agtgataatc 120
 acagtttgtt cagcttgcag gaaaaaaaaa a 151

<210> 1421
 <211> 733
 <212> DNA
 <213> Mus musculus

<400> 1421

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| gacaggacag | tgcttggtta | angctatatn | tctgctgtct | gagcagcaac | aggtcttcga | 60 |
| gatcaacatg | atgttcataa | tcccaagatg | ttgccattta | tgctctcaga | agcaagcaga | 120 |
| ggcatgatgg | tcagtgcacg | taatgtcact | gtgttaaagt | ttgctatgca | gtttggattt | 180 |
| ttctaagtga | gtgtaggtag | aacatatgtg | ttctgtatga | attaaactct | taagttacac | 240 |
| cttgataat | ccatgcaatg | tgttatgcaa | ttaccatttt | aagtattgta | gctttctttg | 300 |
| tatgtgagga | taaaggtggt | tgtcataaaa | tgttttgaac | atttcccaa | agttccaaat | 360 |
| tataaaacca | caacgttaga | acttatttat | gaacaatggt | tgtagtttca | tgcttttaaa | 420 |
| atgcttaatt | attcaattaa | caccgtttgt | gttataatat | atataaaaact | gacatgtaga | 480 |
| agtgtttgtc | cagaacattt | cttaaatgta | tactgtcttt | anaanagttt | aatatagcat | 540 |
| gtcttttgca | acatactaac | ttttgtgttg | gtgcgancaa | tattgtgtag | tcattttgaa | 600 |
| aggagtcatt | tcaatgaatg | tcanattggt | ttgaaagtta | atgaacattt | taaatgccaa | 660 |
| ctgttncggg | tttaaaaaa | aactgtccga | ancttgaact | aaaattaaaa | ncgaantatt | 720 |
| caaagggaat | aac | | | | | 733 |

<210> 1422
 <211> 231
 <212> DNA
 <213> Mus musculus

<400> 1422

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgagata | tacatgtctg | agtcacggc | ggctgaatcc | aagtctgcat | gtgaaggagg | 60 |
| agggacagga | ccattcgatc | tccagccttc | cccctactcc | ctcaatagct | tcggccacac | 120 |
| cctccctccc | taagacgtgt | gccccaaagt | gctctttggg | gctctgcagt | taagggtcca | 180 |
| cctgagaact | gataggagaa | tgaagaagat | gacgagttgg | ggggtaagag | t | 231 |

<210> 1423
 <211> 297
 <212> DNA
 <213> Mus musculus

<400> 1423

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| tgaggtgctc | cctgactcgc | agcatctggt | aatccagcct | aagcccacag | tcctggctag | 60 |
| gtcctgacac | atgtgacaag | tgcatgacat | ctgggtggctg | cagaatgaag | atataacggt | 120 |
| caaacagaag | cctgggagtg | ttgggtggctg | tgaagtggtc | caaactaagg | atggttttac | 180 |
| attatgtgaa | gcanaagaac | agagtgtgca | atcagatcaa | gcctcacctg | cagccaggac | 240 |
| tgctcttga | ttctgcaact | tcagctgata | aactgctttt | atcttttaaaa | aaaaaaa | 297 |

<210> 1424
 <211> 185
 <212> DNA
 <213> Mus musculus

<400> 1424

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| attttacagt | gaggaaactc | ggtgtatgca | ggatagggaa | ctctacatgg | accacagaag | 60 |
| gcaaaagcct | gctgctttcc | tgtgcagggt | ggagtgtact | aagtttagcat | cctgtgatgt | 120 |
| acttgcccca | gccagcaaca | gcagagaagc | acacaggtaa | cacagctcct | tgaagttgga | 180 |
| ccctc | | | | | | 185 |

<210> 1425
 <211> 282
 <212> DNA
 <213> Mus musculus

<400> 1425

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| gactgagggg | acaactgagg | ctgagccaga | cottgacttt | gctgccctaa | ggagattatc | 60 |
| aagggtggag | ccatcctccc | tagatcactc | tattgttcag | ccactgtccc | gttcctcttc | 120 |
| aagatactgc | tacctgccga | agcaattccg | gagactacac | cctgtccctac | acgtgggtcac | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgcagctgg | gctccaagaa | tgaattggcg | agaatgggcc | tccccctcct | ttataagcgc | 240 |
| atttgccatt | aaacatttga | gccttgatct | gaaaaaaaaa | aa | | 282 |

<210> 1426
 <211> 222
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1426 | | | | | | |
| actgaggccc | aggaagtgag | gccggtngaa | gcacnagcg | ccaaggantn | ttccactcct | 60 |
| actgggtaaa | agcacncggn | ctactcggag | cacaggaaaa | agcccagaaa | acctggccca | 120 |
| gcccaggcct | ntctccactc | cctgcttgac | catgcaggaa | aacagacaca | antatcttct | 180 |
| gggcattttca | cccngnggat | taaacataga | agaacaaacc | cg | | 222 |

<210> 1427
 <211> 287
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| <400> 1427 | | | | | | |
| gactgagggtg | gggtttgggct | gaggtaganc | ngggcagcgg | ncatnatnac | ttnttgtgga | 60 |
| actctcanag | gnnggncagg | angnacaggt | ggccaccatn | nccaccagga | ggcannncag | 120 |
| gagagcncng | atnacncnca | cnatgatnac | tgnggcgnac | accagggtcca | cctgctttnc | 180 |
| tggatcttctg | gggtctgttg | gagacaggcc | agngtctgag | atacacgccc | aaatccttcc | 240 |
| ctgatcctcc | ccagacccca | ttgctacccc | acgtatcctc | atcatgg | | 287 |

<210> 1428
 <211> 294
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 1428 | | | | | | |
| tgtgtggagg | agaaatatac | actgctgagg | tcactcattg | ttcanagact | gtcagtgtag | 60 |
| gaacatggac | cattcttaata | ggganaagga | tgatagacaa | cggacaacta | aaaccatggg | 120 |
| acaaaggaat | acacactgtt | ngagaccatn | tggcacttna | acatcctctg | gggtncctcat | 180 |
| ggngggaccc | aacttnaggg | ttggcaagaa | nataggggtg | gggaacttcg | gngagctcag | 240 |
| attaggnaan | aatctctaca | ccaatgaata | tgtaaccatt | aaactggaac | caat | 294 |

<210> 1429
 <211> 434
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 1429 | | | | | | |
| gctgtggatt | cccagttttac | agagggtgaag | gtgtaaacga | gtgtcggaat | ccagcacact | 60 |
| gcaggnggag | ctcaaagtga | cagcttttgct | tagctgtcag | aagggaaggag | gctctcccag | 120 |
| aatoccatgc | cctgaagccc | agggtcatat | cctctatctt | cacaaaacat | tggttgctaga | 180 |
| ttggactttc | taatcatctt | aatagtggca | actactgaaa | tttgccctcg | ttcttatcta | 240 |
| aggaataatg | ctgtcagcat | gtctgcatac | tccatgctct | ccgacagaat | tgtcatggcc | 300 |
| aagggaactga | tcaaaagagc | agaatcactt | tctcgggtccc | gaaaagggtg | catagaaggt | 360 |
| ggcgcaaagc | tgtgcagcaa | actgaaggca | gaactcaaat | tcttgacaga | aatagaggct | 420 |
| gggaaaaaaaa | aaaa | | | | | 434 |

<210> 1430
 <211> 353
 <212> DNA
 <213> Mus musculus

<400> 1430
agaactgagt gaatgctgac cagtgagatg ccagcctgcg tgtgaagatc ctacagcaga 60
agtgcattggc cagtgcacaca agaacttgcg agagatgccg gtccgcctgt gaagatcctg 120
cagcaggagt gcatagccag tgacacaaga cgtgcgaatg aaaactagat gtgaccatcc 180
agaaaaagca tagacaaaaa aatgcagtct tagtactggg atgtttgaga tgggggtctat 240
ctacatgtct ctagctgtcc ctatcaggac agcatctggt gtggcctgca gaggatgattc 300
ctgtactttt ttttttttgg gggctgtttt taaatggatt gttttgacaa tcc 353

<210> 1431
<211> 335
<212> DNA
<213> Mus musculus

<400> 1431
actgcgcttc tatggccaga accttctttg ncagtgttct ctggngcgnc tggntnttta 60
ttnanocctag atggcactag anggaagaca ggccgaaanc gaantcccag gcttccttta 120
tgntaanagc gatnaggcct ttacaagtct antattgnga gtctccagag agancagagc 180
tctcctaong actagcttaa acctggagtc agcgagatnc taactgctgt cagangaatg 240
ggcccaagga gtcnngaaag aanccctnca gggnggattg ntgtgaagtg ggtgatgact 300
atanaagctc gaggccagga gctgatgtta ttcaa 335

<210> 1432
<211> 256
<212> DNA
<213> Mus musculus

<400> 1432
gggcacagat tgctattaca ccaaggggac agagctattg agtgggagaa gtggaatttg 60
aataagccag ggngcacaga ttagtgagga acctaaactg aacctaccaa ctagaaactc 120
aacatacagg gaggacaatg aagaaacctt caaagaaacc agttcctgtt gccctaactc 180
aacaagtttc aacaaagaag tacactgaaa ctttactgct atgcaataaa gcacagcaaa 240
ctgggaaaaa aaaaaa 256

<210> 1433
<211> 136
<212> DNA
<213> Mus musculus

<400> 1433
acggtggctt gtgctggana gatggctcaa centtaagan tgccgacngc tcttnnaang 60
gncctgagtn naaatcctaa caaccacgtg gtggctnata nccacccata acnaaatctg 120
atgccatttt ctggag 136

<210> 1434
<211> 226
<212> DNA
<213> Mus musculus

<400> 1434
actgagaaag gtttaactga ggagggaaga ccacctgccc tatgtgaggc caccataccc 60
atgggctggg gtcctggatt gaatcaaag gaggaagcaa gctgagcatg aacattgacc 120
ttcctgactg cagatatcan tgcgatagct gtntcctgct tcttctacta tgcctcccc 180
ttccatgatg gactgtntct tgaaactgng agccaaaata tacact 226

<210> 1435
<211> 497
<212> DNA
<213> Mus musculus

<400> 1435
actgagacac atgtcggagg cgaggnttat ggccagagac gtcatacaaga ctgttccaca 60
cgaccaggto ccccaacctc cagtggcctc tgagactccc agcatgaagg agcctgtggc 120
tggggaaaaac cttagtccctg tgagagacgt ggacctcatg gagtgcgtgg aaggcagaaa 180
ccagggtggcc ttgaggctgg cctgcacatg cgatgagatg gacctgtgtc tgcggagccc 240
ccgtctggtc cagctgcctg ggattgctat acacagactc gctgtcacct acagccggac 300
aggtgtcaga ggtattttca ggagcttgat tcgaagcctc accaacctca gggaaaacat 360
ctggtcctgg agagtcttga ctcttgccgc ctgggtgtca cctgaccagg accctgggca 420
gctgtttcca atggtgctgc tggctctctt gctgctgggt ggggcctggt atttgcagct 480
tcagtgaagt gcagctt 497

<210> 1436
<211> 211
<212> DNA
<213> Mus musculus

<400> 1436
aatggccccg ggcgcgaaag aagattgcct gttagttctt tatcaatatc acggcngnac 60
ngagaagaga agctacagtg tgccttttgt ttggttttac caatgtgaag cagttttcag 120
aaaggagnac taccacagga gctcgttcc aataaaaaga gtgcgtgcat accttttaaa 180
gataagcacg tgatctagat cgaaaaaaa a 211

<210> 1437
<211> 222
<212> DNA
<213> Mus musculus

<400> 1437
aagctgggtg tggtggcaca tgccttttaa tcccagccat caggaggcag aagcagactg 60
gatctccagg agttcaagac cagcctgac tgcatttggg gttccagtgc tgaatattaa 120
cccaaggcct tgtgcatatg aggcacacac tccactacgg tatacattha gcctatactt 180
tgaattttta gaatagagat gttcaaactg caaaaaaaaa aa 222

<210> 1438
<211> 389
<212> DNA
<213> Mus musculus

<400> 1438
tgagattgtc tagccgctcg atggggagtc cagaagaccg cctgtgtgtg tcagatcccc 60
acctctctgt agcaagagaa gtaactacag cgccttcaca gtcattgatga tgaaactggt 120
attaactgag tggcccttat ggatttttaa ctctaactca cagttagcca gcaagccata 180
tgtttacagt tcaacacaaa acccttcgtg ttgctgcaat tcttgtgaga ggttgagacg 240
cctgttggtg cagagtggaa tacaagagtt acttgccgtg gaacacacct gcagcagagc 300
gagaagacgt cttaatttat cattggagag agatgatagt attatttata taggtagaat 360
aaatatatat ataaatatat atattttgg 389

<210> 1439
<211> 117
<212> DNA
<213> Mus musculus

<400> 1439
aactgagagc atactgccct gctggtagtt catacccatt cctgancaac actggttttt 60
gccatggaat ccttagatcc agcgggggnt gggcagtnng ccaactgttca aaattaa 117

<210> 1440
<211> 276

<212> DNA
<213> Mus musculus

<400> 1440
cttacagagg ggatcttngg aagctgtgcg gataacaann gcncgangga gaaaacaaag 60
atcanaatca gttctccttc caagcactca gccaggccaa gccagagggtg actctgcana 120
gagtcacaac cccttgggtct cctgctgcag atgccacctc tcctaagaga gaactcacc 180
aagatgtgnc tgagtccaag ggaagtccgn gnccctcana nacagaancg ccttcactgg 240
ncanctcann ggaacctttt cttgctaate aagata 276

<210> 1441
<211> 427
<212> DNA
<213> Mus musculus

<400> 1441
actgaggatt tgaaagtatt cttgagggct gtttggacct gcgttattaa aagatctcag 60
tttattttaa gagtgtgacc ctgaaaagcat ttctgattgg gccgtntgat gaaaattgtc 120
tgttctgttg cttgaanaga gataaagnaa agggacattt agtcgggtctg gatgaaccag 180
cttccggagc tgggcaagaa gctttgctta agcaagagca cgcaaaaatc attcgactcc 240
agagacaagc agaagagttc ctcaatgcag tcttttatag aaaagggttg tttcagtggc 300
aaacgacaca gctgtctgct tgtcatatat taatttcctt aatatagatg tcattttaag 360
ttactcttca aatatttctg tattccttta tcacattaaa tttggaataa cgtaagaca 420
aaaaaaaa 427

<210> 1442
<211> 585
<212> DNA
<213> Mus musculus

<400> 1442
tatctgttcc caggatgagt aacagccacc ctcttcgccc ctttactgca gtgggggaaa 60
tcgatcatgt gcacattttg tctgagcata ttggtgcctt gttgattggt gaagaatatg 120
gtgatgtcac gtttgttgtg gaaaagaagc gctttcctgc ccacagggtg attttagcag 180
cgaggtgcca atattttcga gcattactgt atggcgggat gcgagagtgc cagcccgaag 240
cagagatccc tctccaagac accacggccg aggccttcac gatgctcctc agatatatct 300
acacggggcc gggcgacgct cactgatgag aaggaggagg tgctgctgga ctctctgagc 360
ctggctcaca aatatggatt tccagagctg gaggactcta cttctgagta tctctgcacc 420
atactgaaca ttcagaatgt ctgtatgacc tttgatgttg ccagnctcta ctgccttnc 480
aagttaaact ttgtatgtgc tgcattgtca tggacagaaa tgctcaggag gtgctggcca 540
gcgacggctt tctctcctg tccaagacag cacctcctga atatc 585

<210> 1443
<211> 456
<212> DNA
<213> Mus musculus

<400> 1443
gactgaggtc ttgaatacca tcatggccaa accttacgaa tttaactggc agaaggaagt 60
gccctctttc ttgcaagaag gagcagtttt tgacagatac gaagaggaat cttttgtgtt 120
tgagcccaac tgcctcttca aagtagatga attcggcttc ttctgacgt ggaagagtga 180
aggcaaggaa ggacaagtgc tagaatgttc cctcatcaac agtattcgcc aagcagccat 240
accaaaggat cccaaaatcc tggctgctct cgaagctgtt ggaaaatctg aaaatgatct 300
ggaaggcgcg atattngtg tctgcancgg caccgatctg gtgaatatcg gcttcactta 360
catggtggct gaaaatccag aagtaactaa ngaatgctga acccactggg tgggtacctnc 420
cctgagcaag ctaaggggagc aagccaggaa gctgag 456

<210> 1444

<211> 199
 <212> DNA
 <213> Mus musculus

<400> 1444
 gactgagtat cggtgatctg atggggccag ttcattatca gottcaactg tctgtgtcc 60
 tgaggctttc gaacattcct tgtcctgtaa ggaggtgaca gaggcagact gtgacccgga 120
 agacacttgt gattacctgt aacaaacgtt gatgttgaaa ctaataaaga attgttgttt 180
 ttttaagtcaa aaaaaaaaaa 199

<210> 1445
 <211> 183
 <212> DNA
 <213> Mus musculus

<400> 1445
 cctcgagaac ccaggcaacc acagacagac atcagagccc tgtctcgac tgcttgattt 60
 cctcttgatc tcttttggca gacactcaaa tgcaatatga gattcagtga tgtaactagg 120
 ctgcggattg tatacaactc actctttaat cactaaaagt aagaaaacat aacagaaaaa 180
 aaa 183

<210> 1446
 <211> 617
 <212> DNA
 <213> Mus musculus

<400> 1446
 gcagactgag ctcttacttc tggggacgaa ggaaaatcca ggattaaaga caatccaggc 60
 caccctgtct aggcaaggga tgcacatga gtatctttcg tcagtggatt taaagcaacg 120
 ctttccaaac attcggttca ccaggggaga agtggggctc ttggacaaga ctggaggtgt 180
 cctctatgca gacaaggccc tcagagccct ccagcatata atttgtcagc taggaggcac 240
 tgttgtgtgat ggagagaagg taggncttnt nctancngga ctatnngnca cagtgaanaac 300
 caccttgaag agctaccaag ccaacagctt ggtcatcact gctgggccct ggaccaaccg 360
 gcttctgcat cctctgggga ttgagttgcc tctccagacc cttaggatca atgtgtgtta 420
 ctggcgagag aagggtccctg ggagctatgg ngatcacaaa gcttttccat gcacccctggg 480
 tctggatctg gccccacca catctatgga ctggcagcat ncgantaccg ggggctgatg 540
 aagatctgnt tnaccatggt gacnatgtgg acccananga accgggactg ncccaaaacc 600
 ntnttaagac cttccca 617

<210> 1447
 <211> 489
 <212> DNA
 <213> Mus musculus

<400> 1447
 aactgagagc gctgatacaa ggcattgctt agaagtgtga ccgcttccctc tggctgcagc 60
 aggccatagt ggggatctac tttgaccaag tggaaatcctg ctctcgaccc tgcagaggtc 120
 tttggcacag aagggaagag gacaccccaa aacatgctgc tgcagctgct gatgtctcat 180
 caccgccttg ccagcccttg gcttttgtgg ctctgtgacc tcagagtctc tcaaggaagc 240
 agtgggctga ccttcaactg aagcagcctg gaggtgctcc ctgctgggctc ggattctttg 300
 tgtacaccat gaatcaggga attggtttct actgatgcag atctgtaggg agcagaagct 360
 ttggtacagg aagacataac taatattgta aactggagtt caatactttt tcttactgag 420
 ttaggacctg gaacaatgac atcattcctg ttggcttatg taataaatac tgaagatcca 480
 aactagaga 489

<210> 1448
 <211> 172
 <212> DNA

<213> Mus musculus

<400> 1448

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggtaaaatgc | caatctcagg | catcatgacc | acaccagnag | aagaactaca | aggaaggctt | 60 |
| tttcaccttt | gacaccacgg | acgcccagnc | tgatctgttt | ttgcacataa | ttaaagtgtat | 120 |
| tcttctacgt | ttatggcttt | gagattnaaa | anacngtgct | tgtgctttgc | aa | 172 |

<210> 1449

<211> 103

<212> DNA

<213> Mus musculus

<400> 1449

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tactggacca | gagattattc | gcccggnaat | tgntntcnct | cccccttgct | tcataactga | 60 |
| gtgtngcaac | agtaaaattg | gagctttgat | cagaaaaaaa | aaa | | 103 |

<210> 1450

<211> 196

<212> DNA

<213> Mus musculus

<400> 1450

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaactgaggc | tctataaagg | acatgggaag | gnaggangcn | ngntntcttt | gcctgcttgc | 60 |
| tctcactggc | attagagcct | actgaggcag | ggtgtccagc | cgngtacta | aagagaagtt | 120 |
| gagacatccg | gccttggtga | ctatacagct | actggattct | tggaccttcc | attggnttgg | 180 |
| agccattggt | ggacaa | | | | | 196 |

<210> 1451

<211> 366

<212> DNA

<213> Mus musculus

<400> 1451

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| gaactgagac | acccgaggac | tttacagtaa | gaggccaagg | gaaatgctga | gtaagcagga | 60 |
| agcggttgac | ttgcccaagg | tcaccaacac | caaatggagc | cggtggaagt | caaccaaacc | 120 |
| ttgttctgct | gcctgtgact | cccagcctcc | agttccacct | gtgcgggttg | gagggttggg | 180 |
| aggaacttag | cctgtaagac | tctggcgagc | cttagcttac | ctgagtgttc | acccctgagt | 240 |
| gaacaacgca | tgcagaaagc | aagagggtatt | tattgttcca | atgcattggg | gtcacccctac | 300 |
| atccaaagga | gaggcgngna | cctctcgagc | cctgtttggt | aagtgtttat | acacttttta | 360 |
| gagcag | | | | | | 366 |

<210> 1452

<211> 419

<212> DNA

<213> Mus musculus

<400> 1452

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| cctgacaatt | gacaagatgg | ontcttttatt | gattgatcag | anaccaattg | gggacaagga | 60 |
| ccttcagcgt | ttggacacac | agattcacaa | ttttgggggc | ccggattact | tcaaagcatt | 120 |
| agatcccatc | cccaacacat | gtgttcaccc | cccagtgtgt | agtaggtttg | nctntgaagg | 180 |
| cccaggattt | ttatgggtcac | tontagcaga | gtcaaagtnt | gagaaagaga | nngctaanga | 240 |
| tatgccctct | gagccttcng | gggaaataag | ggcaaagtct | caagtccttt | tattattttt | 300 |
| ttttccgaga | caggnnattc | tatgnatagc | nctgggtgtc | cctggaactc | attttatang | 360 |
| ccatggnttg | gcctcnaact | caanaaatcc | gcttacctgt | ggctgcaagt | gcagggcatt | 419 |

<210> 1453

<211> 464

<212> DNA

<213> Mus musculus

<400> 1453

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| tttgagcctt | gtatgttgg | tttgaagttg | agttcagagg | aggagagaat | ctatggctgt | 60 |
| ttaaagaaat | tatgagtcca | ggatcacaag | ttcacatttt | tttgggtgct | ccagttgctc | 120 |
| cactgaaaac | nacagtatca | cagggaaacag | cttccttaat | gtccactgcc | aacgcctggg | 180 |
| aaaaagtcn | actctctat | aaacagcatt | ccttgtntct | gaaggctggg | gatcaggagt | 240 |
| ttaaaaatct | ggaagactgt | caagtccccc | aaaggtcctg | gccctccang | ccttcttant | 300 |
| ggtgacgttt | tgatgacttc | tgtgaggagg | tctgctcagg | tggaaanagga | ctttaaacat | 360 |
| tctgcttcgg | aagcacagag | tgtgaaatcc | ccacgttaac | ctgagtgata | tgactagtgg | 420 |
| acaaatgtgt | ggccttgggg | acggagttca | ccatttacc | cgaa | | 464 |

<210> 1454

<211> 440

<212> DNA

<213> Mus musculus

<400> 1454

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| tgaccaagta | tgggtggctca | cacttatact | ctgagcacto | aagaggatgg | gcaacggaat | 60 |
| tgctgaccgg | agaggacagc | ctcgccgtga | gttccagaga | tgatccagca | gttgaggtcc | 120 |
| cagcagagga | gacttctagg | tgaaccgcca | cagaaaggat | ggaagggtcac | tttacaccat | 180 |
| gttgatctgc | tgaaactgtg | actccagtgc | tcctgatcct | gotttgottgc | tgtttatgct | 240 |
| ttgctgcacc | agccactgcc | cccttactat | ctgggtaccc | cgcagcagtc | gatgcaacag | 300 |
| ccttgtcatc | aagtctctag | tggctggcaa | gaaggccaat | tggatagcca | ctcttctctt | 360 |
| ntcggactta | acacagaact | gntgggttnc | aaacaaggac | ctttgcattg | gaaataaagg | 420 |
| accctcagcc | ctttcccatc | | | | | 440 |

<210> 1455

<211> 203

<212> DNA

<213> Mus musculus

<400> 1455

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctctgctgag | ccctgnctcc | ttaagcaggc | cngagntcga | cagaactcgg | ttgcttngct | 60 |
| gttangectt | ggagggaacn | nagctgactg | atgaggctga | ctttgaactc | aagagatttg | 120 |
| ctgacccag | tnctgctgga | attaaaggcc | tgatctacat | tcgcctggac | ctaannattt | 180 |
| tcatgatcac | tatgcttcaa | gat | | | | 203 |

<210> 1456

<211> 236

<212> DNA

<213> Mus musculus

<400> 1456

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgccccacc | ccttcttcat | gtccactgn | nctagaatca | gatctgcatg | gctatgacat | 60 |
| gctcgccgtt | ttaaagatgc | aaagatttca | tgctagatca | ttagaatgta | tctggacttc | 120 |
| gttaggacaa | gttctttgct | agtaaccagt | cacgtgctag | caattgaggt | gtgttaacct | 180 |
| gtatattgnt | gcctatgagt | aattttccat | aatctttaat | aaaggcttcc | tgtgtc | 236 |

<210> 1457

<211> 116

<212> DNA

<213> Mus musculus

<400> 1457

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gagccacaca | ctgtgcacct | ttntactgaa | ccaganatta | ttcngcgnga | atctngntnc | 60 |
| catccccctt | cnttcataac | tgagtgtgga | gncagtgna | attggagctt | tgatca | 116 |

<210> 1458
 <211> 119
 <212> DNA
 <213> Mus musculus

<400> 1458
 acactgtgcg cctttatact gtgccagaga tcntnccgcn gggaatcggn tncnntnccn 60
 cttgcttcat aactgagtgt ngcaacagta aaattggagc ttgatcaga aaaaaaaaa 119

<210> 1459
 <211> 127
 <212> DNA
 <213> Mus musculus

<400> 1459
 ggggagccac acactgtgca ccttnntact ggaccngaga ttatnccgc cggnaatctg 60
 gnttcntnnc cgttgcttc ataactgagn gtggcaacag tgaaatngga gctttgatca 120
 agaaaaa 127

<210> 1460
 <211> 173
 <212> DNA
 <213> Mus musculus

<400> 1460
 gcaaaggctc atacacnctg caagtcttna tggnccttacc accanccttt ccagcaggtt 60
 ctantgcctt gacctgggtt aggaccgagn gaaggangaa gagggtaaaa gggcacagac 120
 ttcccccant ntgcctataa taaaataaca atgctgattc aatgaaaaaa aaa 173

<210> 1461
 <211> 443
 <212> DNA
 <213> Mus musculus

<400> 1461
 ctaccctccg gcctctactt ccacgtgctg ggatcgtggg catgtgccgc cttgtatcnn 60
 ctcatgtcac tttgtaccac tgcgtctagc tgagttctgc tgtcttgccct gagctgagga 120
 tgtgaaaacc cttaaagagga agtgcactgt aaaggacttt ccttttgagg gcctcatcat 180
 tctagaaggt tccttccgcg tgacctcctc cccagggca gctccctgc ggttggtgggt 240
 gtgcacctgg tttctaccca cgttgctggc cagtttgccct aatcctgtgg cactgttatg 300
 aaatcctaata tacaattaag aaaaaagtct gagcaaaacc caagatacct cgggatttta 360
 tcatgatgct cattaatctc atcttcaaac ttaatgtcaa gtgtttgtct tttgcttttt 420
 gaaaaaattt tttcttaaca tac 443

<210> 1462
 <211> 118
 <212> DNA
 <213> Mus musculus

<400> 1462
 acacctttta acccgacatg ggaacgttca tgataggacg ggnaaaatgt gtcaccctgg 60
 agaagtgggg aacaggactt attccagcaa gggaggagag ctttgcctgc ctcgatgg 118

<210> 1463
 <211> 157
 <212> DNA
 <213> Mus musculus

<400> 1463
acctgaggtc cctgttcggg cgccaaaatg ttgcggccgc cagcagctcg caacgtgaac 60
ggtttgactg agaaggccgc tcgagctgta agagaggaat ctagacgggg caaaagaaga 120
aatgtagcca agacagttac tctgacgaaa aaaaaaa 157

<210> 1464
<211> 260
<212> DNA
<213> Mus musculus

<400> 1464
cctacagagt gagttccagg acagcctnn ntatnctgan aancnnntc ggnacttcca 60
gttctnctat gaaggatgtt gatggttag nncggggaa caagtgnccc tttccagttt 120
tgtccagacc ctgacgagga cataatggtt gttatcaata aggaaaagg anaagagatg 180
gaacagctca ntgagganct ttaccaacaa aaccaggagc tgaaagacaa gtacnctgac 240
ctccatgagc agctacagac 260

<210> 1465
<211> 418
<212> DNA
<213> Mus musculus

<400> 1465
gactgagaag agaggtggct cgctgcatg tctgttgtct gcatgtctac ttccttggtc 60
tgtcactcgg ctgcacnttg acctcaccaa gntgaaagnc gacatgtgca tggcagccat 120
cttgtctgct aactgaactc cngcacaaca agatggaggt ggctggcctt catgtgacct 180
attgtttcag gtgcgttttg tttctccctt caccgggttc tagtggccc gtttgcaagt 240
gcagaatggt gacgaggctc cctaaagcag cctcgaccat ccacagacag cctcacgttt 300
ttctcctact ttttccttat gcttttaaac ggcagactct gaattgnca anctaaaatt 360
nttttggggg gaaaattaaa atttttaatt taaaaangcc ttaattaaat gaaaaaaa 418

<210> 1466
<211> 518
<212> DNA
<213> Mus musculus

<400> 1466
aactgagatg tcaagggcct ctacacacat ctggaagtgc aggcattggcc cttgagaacc 60
gcgtactcac gcgtccagg aggoncactg cggcaggatt gccccgaaa gctgtcgcag 120
tgaacgcac tcgtatgaag attgggagct tcattttcct cgctggctct gtctgagggc 180
tccctgccct gctcgagacc cgtttcactt ccagctgtta agaagaagaa aaagttaatg 240
ttttactcca tgtatagacg tagttaatag ttaccagata gaaagtcatt gactccaaca 300
tactttgcac ctcaagatgt gcacaccccg acttttcaaa gcctctgcat ttaatttggt 360
ttaaaatact aactgaaatg aaacagtttt aacctttggc tatttgcccc tctaccccaa 420
cagaactccc caacataatc accctctgtc ccagagtagc tgacactagc tgtgacagt 480
actttaataa aattcatgag acatctgaaa aaaaaaa 518

<210> 1467
<211> 134
<212> DNA
<213> Mus musculus

<400> 1467
gacagtcact ttactgttta aagcgnnca aaccacaaanc ggcaatgang gaggtggtct 60
ctgccnactg ntgatnaaca ggaagagacc gtgaattgag gccaccaaga acttgacgct 120
gaacaagatg gaga 134

<210> 1468

<211> 204
 <212> DNA
 <213> Mus musculus

<400> 1468
 tgcttgcttc tatctgcnga ncccatntga agactgatgc tgtccgngtg cacatccggn 60
 atgganctct ggtccctggg ctttaaggagc ttnccggtgg ggcacaggt gcagccacca 120
 gaggaagggg attancgata gctctcanag aggagagcag gctgtcctgg gcattttaaa 180
 aaatggcatt ttgaaaaaaa aaaa 204

<210> 1469
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 1469
 cgtggcaacc atactggggg cctentatan cntgtnaagg aagantataa tcgntttgat 60
 cttgaacttt acnatgaagc tgtaaaaatt atcaaaaaaa aaa 103

<210> 1470
 <211> 505
 <212> DNA
 <213> Mus musculus

<400> 1470
 ccctgaaatg ctctggaagc tatggaccag caagaccttc cagannagag agaacgatgg 60
 cagtgggtgag cgataaggcc ctaggtaggc taaagtgcc cggacaagat agcattgaat 120
 tgggcatctg tggtctggctg acttataaat tgacctgata agcaggtcct tggactggga 180
 tgaaagaggt gtcactgaga gattaatctg atggccttgg gctaccctgc cccggatctt 240
 tctgggagca gtgtgaagat ggggtgcttt tagaaagttt tatgttacca actgggcca 300
 acctttcaat cttggatttt aaaaacccca ttgaaacccc tttgccacag gaatggcatg 360
 tagctttctt agagttttatc ttctcttaca cataagaatt cagagcctta gggagatggc 420
 tcagtgggta agggcactgn ccccaagcca gaggacctga gttcgagtcc ctgggacctg 480
 caatagtgga agattctat aagtt 505

<210> 1471
 <211> 170
 <212> DNA
 <213> Mus musculus

<400> 1471
 gctcttgag ctggccaatg aggtgggacta tgcaccctca ttaatggctc ggattatcct 60
 ggagagattt ctacaggggc atgaanngac tccaccaaga ctggagaaat gctactctca 120
 agtgcaaaaa tgaattctac caatgttctg atgagaaaag gaaaaagaaa 170

<210> 1472
 <211> 123
 <212> DNA
 <213> Mus musculus

<400> 1472
 gaactgagga atttgatcag tttgatgaaa ttctattgat gtcaactctc cagctgtctg 60
 tgccctacca aaagctgttt gctccaaga caacaaacag cccgtgtgat ccaaaaaaaaa 120
 aaa 123

<210> 1473
 <211> 452
 <212> DNA

<213> Mus musculus

<400> 1473

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gggtgaagg | ctcctgnagc | cacatctatg | nagttacatg | aagatnnggn | cctgtnaaca | 60 |
| tgggttcttg | gaactgaacc | caggtcctct | gaaaggacnt | cgagngetct | naaccactga | 120 |
| nccatctctg | cagnctaacc | ccatcccttg | gaggctgaag | caaagcatag | ttcaatgact | 180 |
| cgtgagacct | ggctcttgat | tgggcctaag | gaaaagccga | ctgtaagccg | ggaagcatct | 240 |
| ctggcaagaa | caaggaagga | ttaagcacgt | ctgtgggttg | gcgcagggat | cacaaggtgc | 300 |
| tctgcagtg | ggaagagcca | ccactagggg | cgctccaagt | cttgtatctt | ctaccttgaa | 360 |
| aactcgtttc | cctgtggctg | cctccaaatc | caacggagat | gaatggcttt | tagtttacct | 420 |
| agctgattta | ataaacttta | aaaataaatg | ta | | | 452 |

<210> 1474

<211> 237

<212> DNA

<213> Mus musculus

<400> 1474

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gaactgaggc | atgtcatgaa | gctccgtgaa | gacactttct | tgctcatgaa | gttcatgaac | 60 |
| ccttcttgca | cgtaatgggtg | tggctttggg | ggcatctctg | acgcaaggat | ggacctctcc | 120 |
| agagccaggc | atgaggctag | acaagggtgt | tgccatcagc | tccaatgcc | cccgtgccaa | 180 |
| ttcactcatc | acaccagatc | ataaaaaata | atctttaatg | gctttagaaa | aaaaaaa | 237 |

<210> 1475

<211> 343

<212> DNA

<213> Mus musculus

<400> 1475

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| actgagtttt | agaatgtcct | gtgacctggt | atattaggga | gagcaaaaat | ggaacttgca | 60 |
| acactactca | tgccagccac | acctacgaga | agagtgaccc | ctacagagag | ccacacatag | 120 |
| ttctccctga | gtcagtggtc | caggggtaat | ccagagccctc | gaggctgcca | tggggactgt | 180 |
| aacggacagt | gaagatagga | tgaactgagc | acaagtgaca | ctatcttcta | aggcagacat | 240 |
| agttggccca | atcttttaggt | taatttggat | gttactttgt | atttcataaa | tgacaataaa | 300 |
| tagtagatat | atctaaatta | tgtttggaagc | aaaaagaaaa | aga | | 343 |

<210> 1476

<211> 262

<212> DNA

<213> Mus musculus

<400> 1476

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| aaaagagatg | cagaancctg | naaaccttcc | aaaggaggga | aaagaacagc | actcannaag | 60 |
| gaaaagaaat | gatggagttt | ttctcttcct | gagtccttan | gngtcagtg | tacagtgtag | 120 |
| acaaaatgat | gacagccatt | aatgtaacct | ttgagaggag | ttgtctgtcc | cgccctaagcc | 180 |
| gagcagggtt | catcgacctg | atcttagtag | tttctagaat | tcgcctaaca | ctgtgtgagg | 240 |
| gtttcatgtg | aaggatgtgt | ag | | | | 262 |

<210> 1477

<211> 428

<212> DNA

<213> Mus musculus

<400> 1477

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggagaggctc | ctcaagggtg | tatcctgcta | ctgctcccca | aggccttgac | caagcatagc | 60 |
| cccccagggc | tggactacac | tgttgaaagc | ctggcacagt | cagatttcag | cctttttatg | 120 |
| cctttcatgc | ccccactcc | cattctttct | ttaaactctg | ctagtaactt | ataagaggga | 180 |
| atggattcca | tggtatactg | gctctgtcac | tcaccagctc | agccttggtt | cttccacggg | 240 |

| | |
|--|-----|
| cctggcacat taaggggatg gccacttgcc tgccaccaac caaaccaaca tggcaggagg | 300 |
| caaaaccccc ttagtttgaa tggccaagt atatatatttc tctaaagaaa gttgccagga | 360 |
| tcctctttgt aacttgtgac atgaatcaga ataaagaatt ccctctgtcc tgccctgcaaa | 420 |
| aaaaaaaa | 428 |

<210> 1478
 <211> 201
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1478 | |
| ctgactgaag tgtgcaaagg ggctgtccca cgaaccataa aacntcatgc ccacccagat | 60 |
| catccctgtc accactctag agggaacagn tattttatttt gctatggaca aagacaaggg | 120 |
| agggtgctag ggaatgattt tgtttctata aagaataaaa ttgtgtccgn gngtgttcc | 180 |
| cgggagacag caggaaaaaa a | 201 |

<210> 1479
 <211> 356
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1479 | |
| gactgagact tgtatcggtt tgattatact gtttagatga aaatgtntgg taaagcacgt | 60 |
| gcttctagga aaaaacctca ncagctgaaa agaagtttga aacaacagag ccaatanagg | 120 |
| aagcggattt gccngagaat gaggttgga acacagcaaa aagaaacaga agtcatgcaa | 180 |
| agcatctgtc ctctaaagta ncaggacaag caacgtatat tcacttaana cggatanaan | 240 |
| tatcatccag cagcaganca acctgncnnc ctcttncaan ggatactgan nagtatttgc | 300 |
| naagtatgat ggagtnagtc attcttggaa ttttattcaa cataaaaaa aaagaa | 356 |

<210> 1480
 <211> 105
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1480 | |
| gtagcttctt gtggaactct caaaggctcg acaggggggg tggntgggnc catatatcta | 60 |
| ctgcctcgaa tcgatgaatt cgagctcggt acccggggat cgaag | 105 |

<210> 1481
 <211> 131
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1481 | |
| tggacgctgc acctttcagg acagtgagga aaacccttag tgtctctgca ttttgctttt | 60 |
| taagcgggaag tgtattttta ctgacacatg tgatgaataa agcagcttgt ggttttggtg | 120 |
| aaaaaaaaa a | 131 |

<210> 1482
 <211> 303
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1482 | |
| gggaggagcc gacggccatc tctttcacca ggagaaccaa gtagctccct taacctcagc | 60 |
| ctcatgacca tgtttcagca ctgtcttaga cttggctttt cagactcagt tctgcttcac | 120 |
| acactggggn ctgcgatcac gcgaggaagg gagcttatta gtaaatacgt gtggagacca | 180 |
| cagcccacac catcagttag aatcagcgtg ggaccactta ttcctgggga cacctgaaca | 240 |

tcaacaaggc aggtgactga ccccaaggac tctcagcaca acacagacag caagaaaaaa 300
aaa 303

<210> 1483
<211> 554
<212> DNA
<213> Mus musculus

<400> 1483
cttatcctcg gaactccact tccngncaag accanacatc ttctccctna acatnggnnn 60
cgcgnaactta gggctcnaact tccccngcca gctnctntac tntatnttan ataattggctt 120
ctacatnann tctctgacga agngtaangt ccatcccca caggnantac attctctccn 180
aggattncat nctnnacat taaaatctcc aatgtctnct gggaggcctc tacgtctaaa 240
atcaanattc tctctgacac naaccttcat gagcatgtat aacttttnt nactgttca 300
tcacttantn cattctganc ctctnaacc agcacatctg ccctntgctc taccatanct 360
cggacagcat tntcaattc cctcctggac acattgcccc tccccaacnc tgcggatgat 420
cnccagctca tgcactacta ccttntgaan gaccctgtat tctccaacgg ncnacctttg 480
anatctgaan tccagagatn attcttccct ttnaaggang acaactacna tccttcccaa 540
acaaggcggc cgaa 554

<210> 1484
<211> 243
<212> DNA
<213> Mus musculus

<400> 1484
gactgaggtt ggtgttctca ggactctttg gctcaaattg ttctgcctga acccctgag 60
tgcttgggtc tacagatgta cctgtgtgct ntggctctgc tgatattgga ttctcaaagg 120
aaaaccattg actttgaaga gtgaagcctg gatgttttat caatgtttta atatgaaaac 180
tcaaatctat ataaaatggt cacaatatag aaaataaatg tccatttaca ttcaaaaaaa 240
aaa 243

<210> 1485
<211> 311
<212> DNA
<213> Mus musculus

<400> 1485
acattacagc tccgcncttc ntggaaagtt tgcncaggt ccctaacatt gntgaagant 60
nactaatnng agactananc tcaagcnctt gctgcctggt tcaactcctag gtttagctna 120
attgcnctac acatanatat gcntaggggg ncatagatgc agngncant tagcagttca 180
ggncacttgc tgtttaatca tnaagactgg anctgagatg gncaaccatt cacaaccta 240
taatttcanc ttnaanagat ctaatgcct cttctggcct ccttaggcaa nctcatatcc 300
tcatagagat a 311

<210> 1486
<211> 117
<212> DNA
<213> Mus musculus

<400> 1486
atccccaaac atacacattc agggggggat gggaacannc atggtggatg cgccctcangg 60
ccacggncca cgtctgttgc aataaatctg cagctctgct tcttgcaaaa aaaaaaa 117

<210> 1487
<211> 463
<212> DNA
<213> Mus musculus

<400> 1487
 atatgctcac acgatctgaa attcgctgct gtgaaaacag aaggaaacgg tcctgtcagg 60
 agaaccagcc cctgcagttc cctaaggctg gcacaatgga ggaagggttc tctccgcctg 120
 agttcctacc tcggtgatgg actccgtgat ggactatgat cctgacaccc acaactaaga 180
 tccggcaggt gcttgacagc agtgacatct tgtgggaaat ctcaggaact gcaccgtggc 240
 aaatcgctgc tctttttact gtgggggtct tgggaataccc agtcaacatc aaggaagcat 300
 tcattcattc actgccttct gtgtacaagg aactgatcca agtcctggaa taaagaaagc 360
 aagagagact ggatggctac acggggagtg aaaaaattcc caaggattat aaccttgtca 420
 ttactgtca actttaaata tattttgtgt gtgtgaaaaa aaa 463

<210> 1488
 <211> 124
 <212> DNA
 <213> Mus musculus

<400> 1488
 cttggttccc ctgctctgac agatngaacn nagentcacg gtgtnggncc nnetgnctgn 60
 ccatcccggt gataaattga ctatgccaat aaattaacat tgnntcactt tcgaaaaaaa 120
 aaaa 124

<210> 1489
 <211> 278
 <212> DNA
 <213> Mus musculus

<400> 1489
 tctgccccag aggttacatc aattgaactt ttaattaagt tctgctgatt ccttgcctct 60
 gtatcttcag tgaaatgtgc cttgtgctcc cacacgtcat caacctaaaa agaagtcctt 120
 agtgaggata aactagtgtt tcataatttt gtttcctttt tctctttctt cagttccttc 180
 tgtattcaag gggtttaagga acccggggca attatcttgg agacgtaatt tttctggata 240
 tcaatcaata aaagcaaata tgatttgaaa aaaaaaaa 278

<210> 1490
 <211> 110
 <212> DNA
 <213> Mus musculus

<400> 1490
 gaccctgctt acttggtgta actacggaca acancatath ntgtntcttan aggcccttnc 60
 gctgntccta acaacncatn ctgggcccga actgtggcct ccataaattc 110

<210> 1491
 <211> 156
 <212> DNA
 <213> Mus musculus

<400> 1491
 gcacgtccgt gaagcttccg ccatgttctc tgggcacagc tgacaggagc cctccatca 60
 tgaacacagc ctctccaact atcacaaaca aaactagttt ccaaagacat cttatttctt 120
 tgcgctataa agtatagtgg catcagaaaa aaaaaa 156

<210> 1492
 <211> 432
 <212> DNA
 <213> Mus musculus

<400> 1492
 ataattcctt accatctttg tcanaatttg gnatactgcc aaaacctgtg tctgtggnaa 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aattttgtct | ccaatctttc | attcaagggg | acgnactaca | atgnaacct | cactctgttg | 120 |
| cgcacactgt | ggctcttagt | gnatagtatg | gggaagaacg | gnaagctoct | gttgtctctt | 180 |
| acttttgttc | tctaacctgt | tttgtaaagt | cctctgatat | gttgaactaa | ttaatgtaat | 240 |
| atcaggaaag | gtttctagga | tgtatatcag | ttgagtattc | atztatgctt | taccagtaac | 300 |
| aaattagaga | aagggaagc | attttgtata | tttgtagtgt | aaggaaaatg | tatattatgt | 360 |
| tagcattttc | aacatttgga | ctcgaatttt | aatttaatta | aagctgaatt | tagtttttga | 420 |
| agtaaaaaaa | aa | | | | | 432 |

<210> 1493
 <211> 300
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1493 | | | | | | |
| gggagaaact | cactcgccaa | acaacgtctc | gtggtatcct | gncngactct | ngccgcttca | 60 |
| gcatgancct | ggctgctcct | gctggattgc | gctactgnta | cngantcatg | ntngngntn | 120 |
| gctantgaac | tggnctgctt | anatnctgac | acggaagagt | ggaatgcgcc | caaagcnagc | 180 |
| acttctaata | aggtccacaa | ctccatttgc | ctntaacctt | gctttttccc | tacctctggt | 240 |
| tggtgggcta | aangggaggg | ttaagaacct | caaataaaga | cagatgtgaa | aaacctaaaa | 300 |

<210> 1494
 <211> 377
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1494 | | | | | | |
| tgcatagttg | aagaaggaaa | gcaaaatggt | aatggaacga | agtccaagaa | ggctacatct | 60 |
| cttttaactc | agagtgggtt | anctngcatt | gctccagctg | aagagcccag | gagcccagaa | 120 |
| gaaaaagacc | ancaaggcgc | acaaaaagca | gaaagttaca | gaggaatgtg | aagaagcaat | 180 |
| tccacaactg | gtaccaatag | gagagactcc | agataaagaa | aatgtaaaga | tgcaagaaaa | 240 |
| tatcacaggg | aaaactccaa | aatcgaaatc | tgatccaagt | acacctaaag | gtaagaaaaag | 300 |
| gaaggccttg | ctggctacag | agactccaga | agcctncggc | cctggggacc | ttcagggaan | 360 |
| gaaggcataa | taaaggg | | | | | 377 |

<210> 1495
 <211> 318
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1495 | | | | | | |
| aggttatccc | ctaccccatc | attgtaactt | aaaotttcat | gtacttgtaa | gtaaaatcag | 60 |
| gtactcgncc | agcttctatg | gnttctgtat | gggnaagtc | gggctgggca | ggggaccnnc | 120 |
| ntacnngnc | ggnccnantt | ctgaengcen | gtcncgtacc | cngtaaacag | ttganccant | 180 |
| agaaaaggcc | tccagcacta | caagtannta | ancatntagg | ctcccccnaac | caccatcaac | 240 |
| ntgtagcact | ctgccaccca | tctctcccca | naaacatcac | agctntaggt | agcctcancc | 300 |
| aacagtcctg | tcttttgt | | | | | 318 |

<210> 1496
 <211> 228
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 1496 | | | | | | |
| gctgtcaatc | cgctcgggca | tggatcgatt | caaggtgttt | gccaatggca | ttcacctttt | 60 |
| caacttctcc | catcggttcc | aagctttacg | aaagataaac | acgctggaga | tcaatgggtga | 120 |
| cctcaccttg | tcctacgtcc | acatctgagc | tcctcctggg | gaaggaagca | aaagatcccc | 180 |
| gagttccatc | taagctccta | ataaaaatgtt | gaaggggaaa | aaaaaaaa | | 228 |

<210> 1497
 <211> 162
 <212> DNA
 <213> Mus musculus

<400> 1497
 tgctacctgc tgggaggccc tggagangct atncctgaga ctattnctga gactacaccc 60
 tatnctgcag ctgggctcca agaataaatt ggcaggaatg ggcctcccct ccacccttta 120
 taagcgcagn tgccattaaa catttgagcc ttgcttgatc ag 162

<210> 1498
 <211> 258
 <212> DNA
 <213> Mus musculus

<400> 1498
 ttttagagta tcaataaaaag actggggaca tgaattacgc ctgagcctgg cctgacaccc 60
 caaggatgtc aaggaggatc aatgttccag agataagatg canagtggcc gccgcctana 120
 gctgactttn tgccctnatg tcagcagatg cccgcttntt tgggtcttgt taaattcccc 180
 ctgcacccct tcctattccc cgtgatgcac gctttaaaac aaggcacctc agcataataa 240
 acggagacct tgctaggc 258

<210> 1499
 <211> 810
 <212> DNA
 <213> Mus musculus

<400> 1499
 gaactgaggg attgcccttc tctcagatgt gtaccctgaa gaaatcttgg ttgatctgtt 60
 ggccaaatat gacagtggga aagacaagca cactcctgag accagaatga aggttggcga 120
 ggtcctgatg cgagttgtca gagcactggg ggacatggtc tcgaaataacc gggaaccttt 180
 gatccacacc ttcttgctgg gagtgagaga tccagatgct gcacacaggg ccagcagctt 240
 agccaacctg ggagagctgt gccagtgcct gcacttctgt ctgggccccg tggttcatga 300
 ggtgacagcc tgcctgattg ctgtggctaa gacagacaat gatgttcaag tgcgcagagc 360
 tgcagtccat gtggttgtgc tgctgcttcg gggactcagc cagaaaagcaa cggaggtgct 420
 gagcgacgtc ctcagggatc tctatcactt gctgaagcac gtggtgccgc ttggacctng 480
 ttgacgtcnn caaagcctgc atgcccagct gcccttggan gagcttcgat gagatcattg 540
 anggaacttc ctgttcccc tccccataa gctgnagaaa gaaaganttn tnggtcctng 600
 ccattannac cctnggtttc accaangaac nattgggnaa nnaaanggn cngngtgnaa 660
 anccntaanc cnngcncaan ntggnnantt tgggtgtanac nnnnacnnn ttccanncna 720
 atgtgcntgn ttttcnact ctngnnentt ntncctttgn ggtggccnnn taccncttgg 780
 naggggctnc tcggcttatt taaaccctc 810

<210> 1500
 <211> 384
 <212> DNA
 <213> Mus musculus

<400> 1500
 cccccaatgg atggactttt aagnctgaaa aactgnanga aaccctnnng tgtctgcata 60
 agcaactcaa nantgtttt gctctgccgc ataagcaagt tacagcagca aacaagtagt 120
 tggtcataac ataacacnna antgnanact gccgtagggt tgtgtggggg tgggggcatg 180
 tcaactgagtc caggttactg ggantttatc ttctagggac tggantcaaa aagacaaaga 240
 gctantgggt accaagctgg atgcctatca taaaatggag ttacagtacn atcacgttgg 300
 ggacccnca gatacacaag tgcttgctct ttaccgcttg aaaccctca cacctcaatc 360
 ntantataca aaaaggattt ttgg 384

<210> 1501

<211> 101
 <212> DNA
 <213> Mus musculus

<400> 1501
 gagggctctcc cttccggagg ggcaagtgtt tccggacctt cccaaagtcc ttgaagtgat 60
 cttttcataa gtaaattctg gngaactttc aaaaaaaaaa a 101

<210> 1502
 <211> 254
 <212> DNA
 <213> Mus musculus

<400> 1502
 agaactgagg tgtgtgggtg ttttcccttc atgtatgtct ctgccccaca tgtattcagt 60
 gtccatggag cccagaggag ggtgatggat tctctgaaac tggaggaaaa gtgacaaatg 120
 tgttgcaca agaagagcta gtaaggaatt actgagccaa aatcaattac caacgcgtct 180
 caggaaaaca ccatgtgtta gacagcctgc tgcagataac ttgggttttg taaactcaaa 240
 gtccaactca taat 254

<210> 1503
 <211> 324
 <212> DNA
 <213> Mus musculus

<400> 1503
 ctgaagtaag agcctgggca ggaggccata nttacttntt gttggaactc tcaaaggncg 60
 gacagagaag catggngtgg ntccatata tctactgcctc naatccgatg aatttttttc 120
 tcggtnaccc gnggatcaga anttccattt cggaagtctc tattctctan aaaantatag 180
 gaactttttn acctgcaagc atgcaanctt ntacctogac gtcnaanaag ggactgangn 240
 ctngnataaa agggnaaaga ntoggatgcn gtgtcccaac cnatgganng tttcttangg 300
 gggannaaat aaccccgggcc ggca 324

<210> 1504
 <211> 381
 <212> DNA
 <213> Mus musculus

<400> 1504
 ccctggggga accccccccg atgatnnnga ggatgacacc tcccnccccc ttgttcnaag 60
 nggattaaga nggaccngga catacnggaa catnntgcta ttagagtcca caagccgggtg 120
 ataatggnna ggaaccaagg cagcttctna taccoccat cgtgaagaga gtcccaanaa 180
 agcagtttaa ccccccagtc ctggctgaaa caaanctcca attanccgtg ggggttctcc 240
 caaggggggn gatttttnaa ggngtgccaa nnccaanac cttactccca ttttaccanc 300
 tttttngaag gagntcatt tttacagcct ccaaaaanag gggacccctc ccgacttgat 360
 ggcctaggca tctctctttt t 381

<210> 1505
 <211> 217
 <212> DNA
 <213> Mus musculus

<400> 1505
 ttgaatttca tacttagtta ctgtatgact ttaataacac cagctaattt cagtacttat 60
 ggttttttagc tggtttcctt attttgtata ttttttattt gtaaataatta aaaataacto 120
 tagtttcatt tgttcattca gaaganaaaa taattttgat tgctgaatgt atctgaagta 180
 atccctgcat taaaatcatt ttctatcaaa aaaaaaa 217

<210> 1506
 <211> 215
 <212> DNA
 <213> Mus musculus

<400> 1506
 atcatccctt caattggggc ccaaggataa aagaacaaga gaaagccaga taagatgato 60
 tctactctct gnnngggngg tctactgaag totgaaggat cccgggcaag ggttcctgct 120
 gccatgtgct ccaccatgcc ttgtgctgag atggattgta ccctcttaaa tcacaaactg 180
 taataaactt cttcctttaa gtggctaaaa aaaaa 215

<210> 1507
 <211> 354
 <212> DNA
 <213> Mus musculus

<400> 1507
 gactgagggg gcccctgat ggaaaagcac naagaagcat gagtctctcg tccccatggt 60
 cctcacagaa ctgattctga cagggnaann gctactcttc gagccttctt tggaagactt 120
 tctggatggc atttctgggg caattaatca ctttgaaaac acgngttgt cagttcctaa 180
 tctgggtgct gactcgtact ttgacgcttt caccagcccg ttcattaaca agaagggtga 240
 gggggngacc tgcgggcccg ggcccaacct gtcagccgtg tttgaggatg acaggaactt 300
 tctcaccatc atcatgcaaa taaaggtaga gtcactttta ctgaaaaaaa aaaa 354

<210> 1508
 <211> 220
 <212> DNA
 <213> Mus musculus

<400> 1508
 caatgaaatc ctoggtntac tnagttaggg tcatcncacc gcatctggta aagggatnat 60
 ccncagcat cattggnact atcctcannt catgtggaat ccgaattact gccatcanaa 120
 ttcacccta tatgaacntn tnagtottot atcctccnc tgtcangnag naagcgcgcg 180
 tantcttttt tgnaatctgt tccntcgatc tcgaaatccg 220

<210> 1509
 <211> 455
 <212> DNA
 <213> Mus musculus

<400> 1509
 aagacagaat cgaaattgaa agaagaaaac acatggacca ggttgtggta ctgtgccga 60
 agcgccagga tatcttgctg cgtcttggcc agcctgacct gggaggcccg gaaatccacc 120
 ttctgctgct tctcggcctc ctgcttcgtg cggaggaggc tgttctccga aaacttgaac 180
 acctgggtga gatggttctt cagctcctgg atcacaaagt tctccttctc cacctaggcc 240
 aggacgaatg aggacagggc cctattttaat agccacgcag tccctccact cccagtcaca 300
 ggacagctgg ccttttggtg tgccctccc ctaggggctt atgcgtctct cgggcctggg 360
 accacatgct cccctcccct aggaaagggg ttggccaagg cctacagggc aaatccagcc 420
 agccatagct gtcaataaag tattattggg acaca 455

<210> 1510
 <211> 223
 <212> DNA
 <213> Mus musculus

<400> 1510
 gttgcaaagc ccagaagaaa gaaatggaca gcggaagaag tggttgtttt tttttccoot 60
 tcattaatth tctagttttt agtaatccan aaaatttgat tttgttctaa agttcattat 120

gcaaagatgt caccaacaga cttctgactg catggngaac tttcatatga tacataggat 180
tacacttgta cctgttaaaa ataaaagttt gacttgcata cac 223

<210> 1511
<211> 169
<212> DNA
<213> Mus musculus

<400> 1511
ccgaccctcg ccctgtgatg nggcctgncc atcctcagga ctaaccngt ggaggtagcc 60
attgagtgcc nataccccag gcaggncaan gcgagcann accctatcca ncccacctgg 120
gttnccttca gagcnnntga gcantcacga ggataaactg gctttctct 169

<210> 1512
<211> 267
<212> DNA
<213> Mus musculus

<400> 1512
actgagttaa atgagctagt tgtgggagac accagcggga aactgtccgt gtataagaat 60
gacgacagcc ggccatggct tacctgcttc ccaaactatga ctgcctgtcg gaaactagat 120
gtcacagtt tgtcttacat gatggtgcac cagtgtactc ccagttcttg agagaaagat 180
catgagtcca aagccagcca aggtccata gcaagtttga gaccagcgtg ggtcacattt 240
ggagatctga tctcaaataa aacaaaa 267

<210> 1513
<211> 214
<212> DNA
<213> Mus musculus

<400> 1513
gatttgctg ctctatgcac cactgtgngc ctggngcctg nggaggctgg aggacggcat 60
gngtctctg gcactgtgac agctgtgagc tacagtgccg tgctgggatt gaacctcagt 120
cctttagaag agcagccagt gctattgacc actgaactat ctctctagcc ctcttaaaat 180
aaatttcttc atgatttatt cgtaaaaaaaa aaaa 214

<210> 1514
<211> 271
<212> DNA
<213> Mus musculus

<400> 1514
gcctaacagt gtcagatgcc cagcngaang cacaaacctt tngngnnggt gctatcactg 60
antaacnatg ccacatgatg gaaacgcctc cagcccttgn ggaccaagaa agggcaggaa 120
actgngganc ctttcagctg gaccctgct gcccgctctg catgtgcca ttaactgct 180
ctttggctgt gagcttgagg ctgtctaca agatcacctg tataaccan ncttcanatg 240
catctgcctg atgaggccac agcctctggg a 271

<210> 1515
<211> 460
<212> DNA
<213> Mus musculus

<400> 1515
ctccttgct ccagagatgg cnaacaaac ggagcctgcg gtgattactc cagccatgct 60
ggaggaggag gaacanctcg aggtgcggg actnnaataa caaccgagtg nttntggaga 120
tccattccct catggngcac cantgtttcc acagngaata ttttgacagn ctgctgcatg 180
cttgcaaacc gngtcacttg cgatgttcca accctcctgc aacctgtcag cttactgtg 240

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atccaagcgt | gaccagttca | gtgaaagga | cgtacacggn | gctctggatc | ttcttggggc | 300 |
| tgaccttggg | cctntttttg | gcacttttca | caatctcatt | ttttgtgagg | aaanangaac | 360 |
| ccccgaaggc | ccttgaaggg | acaaagcctt | aaaagcccca | aggtcaagct | ttgacgggat | 420 |
| cggnttcagc | ttggacaagg | ccgacacccg | agcttgacta | | | 460 |

<210> 1516
 <211> 298
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1516 | | | | | | |
| tctttccaac | gagcgntccc | catacaatga | caanacattc | ctcaacctca | tggaaccttt | 60 |
| aaataaaaaat | ntttannann | gtgaacannt | atataannnn | cnnatgtaca | acctatngcc | 120 |
| cncgatcntg | aagtacatac | ctggnaagca | tanagaattc | tcaaaaaggc | ttgggtgggt | 180 |
| taaaaacttc | atcctagaaa | aagtgaagga | gcaccaggag | tccctggacn | ggggggggnn | 240 |
| ctcgggatta | catcgactgt | ttntctcagc | agatccgagg | aggtatagga | cttggggg | 298 |

<210> 1517
 <211> 102
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1517 | | | | | | |
| ggcaagtctc | gaaattcgat | atcaagctga | tccggaaccc | ttaatatatac | ttcgtataat | 60 |
| gtatgctata | cgaagttatt | aggncctcg | acaaaaaaaa | aa | | 102 |

<210> 1518
 <211> 200
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| <400> 1518 | | | | | | |
| aaccatttct | ggaagaatga | agatgtcttt | gaagctatgg | gccccgtcct | cttcaggtct | 60 |
| agctgcctct | atgctgcaaa | tgccagggaat | cttgagagct | gccaatgttc | agtcattctc | 120 |
| accctggcct | ccttttctaag | tctgtcccca | gggtggaaat | gtggagatct | gccttagctt | 180 |
| tgatgctgaa | gaaaaaaaaa | | | | | 200 |

<210> 1519
 <211> 663
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 1519 | | | | | | |
| gatattgtga | aactatctgg | ttaaagtaaa | acagaataga | agaaccagag | tcaactgtctc | 60 |
| acttcccagg | aagagtccag | ctgctgaccg | tatccacccc | caccctactc | aggcgcccttc | 120 |
| cttcctctcc | ttctcaaacc | gtgcttctag | actccagccg | ctacatctcc | cttctgcgaa | 180 |
| gctcagaaaag | atgccacaca | tccccctggc | tcttaccac | tgcccttcct | tataagaacc | 240 |
| ctggetctca | gcactgagca | gcatecgtcc | gtctgtccgt | ccgttcttca | gccttcacag | 300 |
| gtggctcttct | ctcggctcca | ttccagcagg | acaggtcctc | ctcagaaaagc | aacgctggct | 360 |
| cacggaggcc | acagctgcct | gtgctaagtc | ctccctatgc | cagttccagc | caagctccag | 420 |
| ctgtctagca | cctctgcate | caaagttcca | ctgttctatc | ttcctcttgc | ttttaacatc | 480 |
| tacaccaatt | aggtcttctc | gtcttgacac | acccttccact | gacaactcgg | ggactacaat | 540 |
| caccactaca | cactggaagt | ntgatattnt | cttctctcca | ttngttacct | acttcaacag | 600 |
| accngaattg | cttnttggga | gccaggggac | caaccagaga | cttggantct | ccatatcccc | 660 |
| tgg | | | | | | 663 |

<210> 1520
 <211> 418

<212> DNA

<213> Mus musculus

<400> 1520

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agggtatatg | agaaatcggt | acttctatct | ggccttcac | agctgacttt | tgaaaatcct | 60 |
| catgagatgt | gtttccttaa | tgcggttcta | tttggcatct | gtcttaatto | cttaatttca | 120 |
| actgcccacc | cactcaacca | agctgttggt | ggtggccagt | ttctctccat | cattagtgat | 180 |
| gtgtagtctc | tcagagactg | attactgact | cctgtttaac | ctctactgcc | agaaaaatgt | 240 |
| taccttatct | tttcttaatt | tgccttgcc | tttattaaat | gaataagtag | agaaatgtta | 300 |
| gtaaaatggt | aaaagggaat | cacgtgacat | tcagggtagg | aagagcttgg | atgctgnaaa | 360 |
| atggatggct | ctctaacttt | tttttttctn | gactgattnt | tacagcaggt | ttaggtat | 418 |

<210> 1521

<211> 443

<212> DNA

<213> Mus musculus

<400> 1521

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actgaggaca | gctcgggaac | cacgtggtct | aagcccgtgg | tgcagttcac | tatcacggac | 60 |
| aacagagggc | gctttaccct | taggaaggca | gagccagttc | ctgtacccca | gtagccctta | 120 |
| cagagaccgc | acaggaggcc | tggatggagt | cttccattgg | gaactgcagg | ggaaaccatg | 180 |
| ccctggctgc | ggaaggctcc | ggctgatgct | ggacagagag | aaggagtatc | tttgctgaga | 240 |
| caagccatgc | tccttctctg | tgatgatcca | gtcaccgggg | gtggttgga | gatgctgtcc | 300 |
| ttggcctgag | cagcccacaa | cctcatctgt | tccccagac | attcagggat | ccacttacca | 360 |
| atatgacttt | cccaatgtng | aacatgcnta | canggcanca | anctttnagg | nttacggctc | 420 |
| ctgganaatg | gggttatcct | gaa | | | | 443 |

<210> 1522

<211> 519

<212> DNA

<213> Mus musculus

<400> 1522

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gagccacacc | cagcacagg | ccaagcncaa | acacaacatc | acatgaacga | ggacagtga | 60 |
| tcacttgga | tatggagaga | cgcaagagga | tcataagttt | gaggccaccc | tcaggaacac | 120 |
| agcaagtctg | agggcagccc | gagccacaca | cgcttcttac | caagaaagga | tgaagccaat | 180 |
| gttcccactc | tatocataaa | taggctgcca | agcacaccca | agaatgtgtc | ctgtgacccc | 240 |
| acaactagaag | acottgacac | tcagtatgat | cgcacacga | agcctgatct | atacccaagg | 300 |
| gtgggaaccg | catcactgtg | gtctctaccc | atcatggaga | ccctctcact | cactcactcg | 360 |
| cccactcact | cacagtgtga | cottgggaag | ccactgaact | gatctagtct | ctctcccata | 420 |
| aaatggacta | atggttgcat | ctcccccgag | agcttggcag | aagggttaaa | attaatatgt | 480 |
| actgaatgct | attgattata | taaaggtatt | atatgtgaa | | | 519 |

<210> 1523

<211> 117

<212> DNA

<213> Mus musculus

<400> 1523

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgagaactt | taaaggtgga | gagggaggag | acagtagcta | angatccagg | actacaaagc | 60 |
| tggtatttca | tcatttctga | cagagaaatt | taaagaagag | aaacaaacaa | acaaaaa | 117 |

<210> 1524

<211> 247

<212> DNA

<213> Mus musculus

<400> 1524

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gctctgaaaa | agacacctta | ccacccacct | cctactcctc | aggcttatca | aagacagccc | 60 |
| anctgagggc | ttngcttgnt | ccctcacacc | tagaggggac | ngactgcnag | atggagctga | 120 |
| ctcncttanc | tcgcaaggct | cnanngcgca | gtggnttgtc | aaaccttcca | ctttcnaga | 180 |
| anggggaaga | aagggatctg | tgtgcggaaa | ataggaaaca | ngctcttagn | naagggaac | 240 |
| ttgcacc | | | | | | 247 |

<210> 1525
 <211> 201
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1525 | | | | | | |
| cacatcatcg | tatctgtggc | tgntgggatc | tctctgagca | caatggaggg | gctgttacct | 60 |
| ccgaacacac | gagtattgcg | agtctctccc | aatctaccct | gcgttgtcca | ggagggggcc | 120 |
| atggtgatgg | cccggggcca | ccatgctggg | aacgatgacg | cagagctcct | acagaacttg | 180 |
| ctggaaacct | gtgggcagtg | c | | | | 201 |

<210> 1526
 <211> 309
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1526 | | | | | | |
| gtgaaagaac | gaggtgtctc | tgaatccacc | tgcccctcgc | cacatnagga | ggggaatccc | 60 |
| ctcctgaaac | antaccangg | acccacggg | gacttcanta | gccacattcc | cnaaaggaat | 120 |
| ctgtcatgtg | aatatcaggg | agggactttt | ctacgccctg | gtgacttttn | acgttgngaa | 180 |
| gcccggntct | ttgcnagctg | ngatgaaaat | ggacttgga | ttaatgggcc | tctaggggnt | 240 |
| gggacctgtt | taacnacacc | ttcccannga | aatttttana | ggggtcccc | tgnttttctc | 300 |
| ttttcctta | | | | | | 309 |

<210> 1527
 <211> 201
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1527 | | | | | | |
| acactgagaa | gtgaagccct | tcggggtcct | atgccgggtc | ccacggtttt | tttccgggtg | 60 |
| atgaaggcgg | gtgccccgga | tgtaataaccg | gcgaaagcat | ctttcctttt | cttccccgcc | 120 |
| tgaccttggg | ttcctagctg | gaggaaatcc | acagccaatc | atgccaaaga | ggaaagtggg | 180 |
| acttgatctc | tgaactctgg | a | | | | 201 |

<210> 1528
 <211> 146
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1528 | | | | | | |
| actgagtgg | gggatcagca | agttgatttc | tatactgctt | tcttacatca | tttggcacia | 60 |
| ttaagtgcc | gaaatttatt | ttgctgagat | ggaccagat | ttggaaaagc | aagaagagag | 120 |
| tgtacttgg | aagatcaaaa | aaaaaa | | | | 146 |

<210> 1529
 <211> 111
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-----------|------------|------------|------------|------------|----|
| <400> 1529 | | | | | | |
| tgccctagct | tggttccta | ntttctcctc | cacagncana | gttaggaaga | nnngaaagaa | 60 |

gctgttacac gaagtataaa ccgcgggcga caccacagcg aaaaaaaaaa a 111

<210> 1530
<211> 206
<212> DNA
<213> Mus musculus

<400> 1530
gggtttgggc tgaagtanac cctgggcana ngcnntantt acttattgcg gaactctcna 60
ggncgncag gaaaaantgn aaacaaanta aggccagggg ngggcncctt gagaaacctc 120
attttgggaa agtgaaatac tttgnnaatt aacatgcann tggttcaata aagacttttg 180
gaaagtgtcc cccccaaaaa aaaaaa 206

<210> 1531
<211> 190
<212> DNA
<213> Mus musculus

<400> 1531
cataagactt ccgtgnagct agaagccttc agagggatat ctncctagatn cgcnagccat 60
naggacagac cacaattgga gattcgctaa cgctcttgcg ataaggactc ccctgtgtat 120
gacgnatgac tanctgttta tgatgagatg cagnaaaaga gggcagnaaa caacccccggg 180
ctgcttccgg 190

<210> 1532
<211> 292
<212> DNA
<213> Mus musculus

<400> 1532
cgccaggacc accgcagtcc anaagcctcc gctgggggct gccatcttgc ttccggggca 60
atgcgcangc gctcggaac gnggagngac acgcgcggna cacggtcagc gccgaacggt 120
gacaacgtcg ccccgccga tttggctgcc atggngngnc gggactcgac ttggcacagt 180
gatgcactac ncntncctnt gaatgactnc ttgctnaagc ctgnatgngg acttcncatn 240
ngngctggaa cnngnangaa ttgcatacnc attgaacaca cattccacac gt 292

<210> 1533
<211> 412
<212> DNA
<213> Mus musculus

<400> 1533
cttttttttc ttaggggggt ttccctngcc tccgatcctg agtgantntt ttontgttgt 60
ctgtaagcnn cnnaccgacg aagagactac gtggagacnt ncnagaantg gnetgctggc 120
canancnggc ancattccat tncgnaanaa caccaaccag gctcttttcg gtttacnnga 180
ggannctnct atcacagacg agggctgacc ctgtnagtgt gaggcaaaag tngatncatc 240
cggggcccngn gcnggagcaa aggcctgacc tcagaaggac ctggccacga aaatcattna 300
taagccgcnn gtcctccgca cacttatana aagtngnacn gggccatgtc cgaataacca 360
ggcttnnggc ncaaaaacttg agaaanccct tctggctctc aaagctccgg gg 412

<210> 1534
<211> 122
<212> DNA
<213> Mus musculus

<400> 1534
tgccggagag ataccgacga ggaacgaaga ctgnttccat tctcatcccc atgnttagct 60
gacacacttg agccctcacg ngtgctgtaa tgtcttatta aagaagatgt taaaacgaac 120

aa

122

<210> 1535
 <211> 527
 <212> DNA
 <213> Mus musculus

<400> 1535

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ctaaaggaac | atatantact | atgganatga | ccatncatgg | gnngcatacn | ttccttnana | 60 |
| gggaggcgcc | ngcaactgac | atagccaaga | ggatgaagtc | agaataccag | aactgtgctg | 120 |
| agtgtggaac | tctggtttgc | ctcagtgaca | tgagggcgca | cataaggacc | tgtgagaagt | 180 |
| acatcgataa | atatggcccg | ctgctanaac | ttggcgacac | cacagcaaga | tgtgtatgtc | 240 |
| cattttgtca | gcgggaactg | gatgaagact | gcttgctgga | tcattgcatt | atccaccaca | 300 |
| gatcagaaag | gaggcccggtg | ttctgtccac | tttgccattc | acgacctgat | gaaagcccaa | 360 |
| gtaccttcaa | tggcagttta | attagacatt | tgcaagtcag | tcacactttg | ttttatgatg | 420 |
| atttcataga | ttttgatata | attgaggaag | ccattattcg | cagagtgcta | gaccgctcac | 480 |
| ttcttgaata | tgtgaatcag | tcaaacacca | cataatttta | tgactag | | 527 |

<210> 1536
 <211> 378
 <212> DNA
 <213> Mus musculus

<400> 1536

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|-----|
| gtgggggagcg | tggctttcttc | tacacaccca | tgtcccgcgcg | cgaagtggag | gacccacaag | 60 |
| gnagtggcnt | ggaanctaga | atcccnccaa | ggccacgcnt | nccntttgn | tgttcgagat | 120 |
| caaactgtnt | aagattnttc | aaggtgnngt | tgannctccct | nacatncgaa | tgngctggnc | 180 |
| tanaccaacc | nonctggtn | ctggacotta | canatcacnc | tgctctnnt | tcctctgngc | 240 |
| tgnaaacaan | nnttggannc | nccccgggt | ccncacccc | cacccacca | atcttaaaag | 300 |
| aattgtcttc | aacctaatat | ttttaaaaa | attttttaa | aaagaaacgt | tttaataaag | 360 |
| ctgttgggag | ataaatac | | | | | 378 |

<210> 1537
 <211> 374
 <212> DNA
 <213> Mus musculus

<400> 1537

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| tgaacctgca | agagccacac | conggtgcacc | nttctacnag | gaccaataga | ttattcgcn | 60 |
| gcgaataana | ctcccctccc | ccttnottca | taactaatcg | tcnccaccaa | naaaattttg | 120 |
| accnttgat | caccacaaag | atcnggnnca | nataagccta | ncncacagtg | atcaaannt | 180 |
| ananccata | actaatcgtc | caccantcc | ttgacagttc | caatgctgtt | nangaggaag | 240 |
| gngaaatnnc | tccccaagct | tgcatnccct | tntgcntnnn | anctnnacta | agganggata | 300 |
| accttattct | caacaatgnc | aggggcattt | ttggaatcaa | ccaaagccag | ggacatccct | 360 |
| gttggacatt | tgat | | | | | 374 |

<210> 1538
 <211> 176
 <212> DNA
 <213> Mus musculus

<400> 1538

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| acacctctac | caaactcaaa | taannaaacc | ttcatcanct | tnactgnatt | tacaatgtcc | 60 |
| tgggatatgc | aattntaatc | acatccataa | nactttttcc | acaaattaat | tnaanatgna | 120 |
| atnccacccc | caaantntnc | ttacatcatc | ccttcaattn | acacccaaag | ataaaa | 176 |

<210> 1539
 <211> 471

<212> DNA
<213> Mus musculus

<400> 1539
ccggaagaaa aggactgacc catgtaagct gaaactgggt ggacccatna gtcacgaggg 60
gggggggnnt tcggncctang aacacnatgg agaaatactt taaggagtgg agactggaag 120
ccgatactg atgctgtcac agacgtctgc tgagttccgt acagcaggcg gcgataatga 180
aatctaaatt gatgtgaggt acngnccatg agaggnacag cctcangact gcgctcctcc 240
ctcgctttga acagtgtatc acccaaggtg ctgggtgcct tcagaccccc cagtgtaccac 300
tgagaggagc tcttcccagt ccttttcaact ctgaatctcg tncctatggg ttaacgggtca 360
tctgccggca accatggata ccagacacca agcattatct atgtagtaat gaaacaaacc 420
ttttatatna tatgtattct taaataaaat ttaatataga acttaaaaaa a 471

<210> 1540
<211> 448
<212> DNA
<213> Mus musculus

<400> 1540
gctgataggg aaagctggcc tcaaagctgt gaccctcttt ctccagcctc tgatgctggg 60
gctacagatn gggncctctcc acattgtcca gacattttca cagtcttggt tagcttcttc 120
agtagctgag agtaagattt atgacattca aaaccacaga ctttacaata ctgctaagtc 180
agatcaacta tgaattggaa tacaaaacaa gagaatgttc ccaaaccccc accatattct 240
aaaaccaggt catctatctt gcagcatttt ttaatgactt ctacaacatc tcaaagttct 300
ttcaactatt ctccccataa ccaagaagca tctcaaaact ctttcaacta ttctctccat 360
aaccaagaag catgcatgta ttctgggaat tcaaattcag tttcacagcc acttctgagc 420
ggcagaaatt atataactcc tcgactc 448

<210> 1541
<211> 485
<212> DNA
<213> Mus musculus

<400> 1541
gaactgagag atcctgtnta tttcgacgat aattggctaa acagcaatca aaactgaagt 60
aggagacaat tggagggttaa agatcagcaa tttaaagaaa attttaaaag gcatcttgga 120
ttacaatcat gagatttttag gacagcagat taatgatttc acccttctctg acgtgaacct 180
cattgggggag cattcggatg cagcagagct cggaaggatg ctgcagctca ttctaggctg 240
tgctgtgaac tgtgagcaga agcaagagta cattcaagcc attatgatga tggaggaatc 300
tgttcagcat gtgctcatga cagccattca agaggatgt tgattagagc tttgcactta 360
acagcttgta acaaattagt ggagaaaact agttctcaca agagaaatgg caaccttaaa 420
aaattatatt attgtctata cctatatcct aattaagttt ttaagttcac tgtgaaaaaa 480
aaaaa 485

<210> 1542
<211> 155
<212> DNA
<213> Mus musculus

<400> 1542
tttttgaga tcgcctancc ccttttttag gggttntgcc cnncccnac canatatntg 60
gagtcnagc ccnaagattg atgagtttgc cttgggagtc angagaaaag gtgaaataag 120
aggccacnt ggtcaagaa ggtcaaaaaa aaaaa 155

<210> 1543
<211> 368
<212> DNA
<213> Mus musculus

<400> 1543
aactgagcct cacaatgttg ctctgactgg ctgaagcaac gtatgcgaga agctgggato 60
tttcttaacc cacaccagag acangtgctc gcaaagacat acctgaagtc attcaccaac 120
aaaactggga agcatgtaaa aacaaagcag ttgcttggtt ctaaatacca gaatgcaatt 180
ctttcaagca tctagatgga gcccatgagc tccaagcaga gcagtaaata acacaacctc 240
ggggttcgac gtgtgataag gtatcctgta actactcttt gtaccgctgg gatctacctt 300
gcttcaactg atgacatgca gcctttttct ttagcaaccg catgaataaa catccaagag 360
aaaaaaaa 368

<210> 1544
<211> 147
<212> DNA
<213> Mus musculus

<400> 1544
ctgagttgga acatctggaa gcaacgggtg gcccanttca gagcaagcac tanaatagga 60
nagaantagg aanggaacnaa naaggaacct gatcncaatt aaggaagctg ctgtttctgt 120
acaanaagan tctgatcttg aaaaacc 147

<210> 1545
<211> 231
<212> DNA
<213> Mus musculus

<400> 1545
ggaatcgaac gcccggaagac tctttttagga atggatttct tagnatggcc aacgtggant 60
tganttcctt ggcccggtt cccagcttga attnactcng gaagttggaa cttctgactn 120
tatntttctg gaggttggga antcctggna cacaaatntc ccaatcttng ctacctcaat 180
ctgantggaa acnatatata anatctcatc tncagtacta agcgtgcgt a 231

<210> 1546
<211> 243
<212> DNA
<213> Mus musculus

<400> 1546
aaatggttaa gcagcgctgg cagagtggcg gcggtcagaa ggcttgctt cggaatgcan 60
atctgttacg gactagggan ccaggccctt gagcttgctc ttggaactcc atctcttctt 120
ccttccctcg gcttaccag gctgttttga tntttcagtg cantgttgaa tgtctcattg 180
ttttgctgtc ctgctattta acacaatgtg tttttttttt ttatttttat aactaaaaaa 240
aaa 243

<210> 1547
<211> 205
<212> DNA
<213> Mus musculus

<400> 1547
cattgacacc acttctaaat ttggccacnn attttttcag acagcacang agaaaagggc 60
cttctctgggt cccannagg aancatctgg agaaagaaaa tccggagacc ttgggaaaca 120
tgtnanatnt ctggaatgna cacacctggg atntancact cttgctatct gtccggtcct 180
ttttgttcaa taaagtccta aggca 205

<210> 1548
<211> 499
<212> DNA
<213> Mus musculus

<400> 1548
tgaactggtg gcagaaaact gaaggaggat acaggaagat gggaaggaac tactgagctg 60
caccatgctg gccgtcctgt cccctgtgct gaaggacacc tgcacacac ctgcacaggg 120
aggggacagc agcctgaact tanccctgat gctgggctgt gtgaagtggc taatatgcag 180
caggcacacc aaggtctacc tctgtgggaa aagtggctga ggctctctct cantacctct 240
ttccctgggtg cctctcactc ggaccctccc agggccgcac acaccctcca gctgtttcat 300
cactttgctc aggaacctca gctgcctttg aacgttatcc ctaaaaatca ccancctttcc 360
acatgacatt cacagntagg tgccagtcac ttctaacccc agggacccta ttntgggggg 420
ntngcttant gtctntggcc agnnatgncc atngntggga accatgctga aggnnagngg 480
gggggtgggg aattagggc 499

<210> 1549
<211> 259
<212> DNA
<213> Mus musculus

<400> 1549
tggccatgag ccattttgag cccagtgant acgncccatg tgaactgcta tcagantnat 60
cntngccnnt gtcntaaac ngtaggggtg tggggagnct aangtgacaa ctgatcctgc 120
ttccctttcn ggaagccang gtccctgcag aagaaaatct tgtgttgat ctncgtgcc 180
atatccgcgn gagtaacatt agnanaagna cngggacngt gtcccatgcc tgcggtccta 240
acacttgaga ggtggagga 259

<210> 1550
<211> 301
<212> DNA
<213> Mus musculus

<400> 1550
cctgggatag ggtattgact ctgtaanaaa ggcactaatg gttacttcca ctccgggtgt 60
cgctctgtct tccactcata ggtaaagggc ctagtataag ccgnaagna tccagggcac 120
atcggtgggt atgctgtaca gtgtgtgggg tactgcccac ctttccacg taagnagtaa 180
acacacaaa gaacttctgg tgggtgtccg gctcggtgc ttcttgntgc ttcagcggac 240
ttgtgcgatt ggacagagcc tcttggttcc ttctggatcg agccactgct gctgagtttg 300
t 301

<210> 1551
<211> 229
<212> DNA
<213> Mus musculus

<400> 1551
tatcattacc ggatccatct atttgaatac tacagcttcc ttaaaaattg canaaagggg 60
tctggnana tnaactggcc cccaagcact ggctactctt ctaaaggacc caggttcgat 120
accattact cacntggaan ctcacatttn tctgttactc cgttctaaat ctgaattcct 180
ctctgacctc tttgggcact gcacacacnt ggacaaaaca cctaaatgc 229

<210> 1552
<211> 149
<212> DNA
<213> Mus musculus

<400> 1552
ctggaagaca accgggattg gtatgacaat cgccatccgc cagagatcct cccacccct 60
gaanccagt acccttatnac atgcatcaca gatccngcc ctgactgaca agttccaatt 120
tgagctcacc ttgtaggaag aggattgaa 149

<210> 1553

<211> 114
 <212> DNA
 <213> Mus musculus

<400> 1553
 gaactgaggt tgctattaaa atcatagata agagccagct ggatgaagaa aacttgaaga 60
 agattttccg ggagggttcag ataatgaaga tgctttgccca tccacacatc atca 114

<210> 1554
 <211> 223
 <212> DNA
 <213> Mus musculus

<400> 1554
 ggcaatcctt tccttnactc ggaagtgaag atactcgtnt ttgatgcctn cttgggtcccc 60
 tccggctacc atgctttgnt ntcagaataa gancgacgac ccanaatnct nctttccctt 120
 ttgaatttac taaagtgnat ttttctatga aaagaacntt gaaagacaan aangaaacgg 180
 anngtacna ntcgctacga anatcttaag ccatgaatga gtg 223

<210> 1555
 <211> 178
 <212> DNA
 <213> Mus musculus

<400> 1555
 actgaggcag gagganggcg agntncaggc cagacaaggc tacatagcag gaccttgcct 60
 caacaaaagt gaaaaccaca tttctgaagc ccttgaagct gagcgtccct catcctgtaa 120
 agtattccca gtcaggcacc gctgctgtca atcaagaatt gaaactgaaa aaaaaaaa 178

<210> 1556
 <211> 319
 <212> DNA
 <213> Mus musculus

<400> 1556
 agcagtaa at caagctgggt ttgtgtgcca agagaaagta ccacttgatc aagctgtcta 60
 taaatacagt gtgtcatgac tccaagtaga gaaggagaag cccatggaag ccaatctgca 120
 atttgggtgaa ctctcttaga aacacagttc tttcaggcag ccgaaggatt atctaattac 180
 ccaaacaaca gagacttctc tctggtccct gaaggaaact cattgggtta aagggtggtc 240
 gtcattggcc tctctggtct tttgggaaca aaattgtttg ggaaataaag ttgagttgat 300
 gtcatttttaa aaaaaaaaaa 319

<210> 1557
 <211> 146
 <212> DNA
 <213> Mus musculus

<400> 1557
 gatgaaggaa gaaatttacg gaaaggaaga aatggcggcc acattcacac tgttaagctg 60
 aaggaaagat actaactcag tatctcagtc tgccctgagc tcccggtggg ctcacagttc 120
 aagaacataa aggcaaaatt ctaaaa 146

<210> 1558
 <211> 195
 <212> DNA
 <213> Mus musculus

<400> 1558

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgacgggaag | ccccagcatc | aagtgtctgc | cgccacttct | gctgcctgct | gcctgctgcc | 60 |
| atgcttcccc | gccaggatag | actctgacct | gcaggaatta | tcagcccca | aacaaacctt | 120 |
| ttcttttata | agtcaccttg | ttcatgtgtt | tatgacaatg | ccggaaggt | aataaatacc | 180 |
| tcagaaaaaa | caaaa | | | | | 195 |

<210> 1559
 <211> 319
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1559 | | | | | | |
| gattttgcag | ttgaaggtga | tgagggttga | acacctggta | catgctgaag | gaccagcgga | 60 |
| tctgggagct | gatgagaact | ggacctgagg | agcatcagag | ctggaggagg | ccccacccag | 120 |
| agtcactcag | acctcgatcc | tgagcccaac | cggagctcct | cactgggtcat | gcagcctcca | 180 |
| tgtgagacgt | gaggtgtgga | ggccagagca | cgctggggcc | gcagacgagt | ttggacagat | 240 |
| ttgagtttgg | ttctcccaac | cccccaatat | cgtgtcatca | tcattgattt | actgcatttg | 300 |
| tgagctcaca | aaaaaaaa | | | | | 319 |

<210> 1560
 <211> 184
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1560 | | | | | | |
| gcacctcgac | actgaagaac | aacctgctgg | tcagatcaa | aagtcaatat | atgacaataa | 60 |
| aactacagga | acaagggctg | gagagtagcc | cagccttcaa | tcccagcact | tgggaggagg | 120 |
| gnaagttgat | ctngagntc | aaagccaacc | nggtcttnat | aggggccgaa | ctaccccca | 180 |
| atta | | | | | | 184 |

<210> 1561
 <211> 386
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1561 | | | | | | |
| agctgctgca | gtggctagag | cagagacatc | tctgtcacgc | gctgggtggc | gacgtggacc | 60 |
| cagcgctaga | ccgcagctt | cctcggcagg | cttctcagcg | ccagcgccgc | agtgccgcc | 120 |
| ccaacgctgt | gcaccgctgc | tgtcttactg | gctgcaccca | gcaagacctg | ttgggtctgt | 180 |
| gtccccactg | aaggagcaca | gggctcaggc | ggtgcgtcct | taattgctcc | ccacctcctg | 240 |
| gctatgtcat | tgcaacaacc | cagtttgctt | tggaggatcc | ctagtttatt | catagatcgc | 300 |
| agtaagcaag | gaccacaggc | cctgtcccca | agaagcccca | tcatgacctg | tgcccacctc | 360 |
| ctccctgtgt | cccaaacagt | ctaaat | | | | 386 |

<210> 1562
 <211> 148
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1562 | | | | | | |
| tcagggggca | cagagactca | accagtacna | aagaatncan | aggtgatggn | cntgtntccc | 60 |
| tcnagagaag | atgactacat | tataaactcc | cttttcaacc | ccaacacca | ctatatattt | 120 |
| ttaatatata | gaaaaaaaa | ctaaaaaa | | | | 148 |

<210> 1563
 <211> 300
 <212> DNA
 <213> Mus musculus

<400> 1563
gacctgaaaa gcttcctttc ttcaggcgcc agaggatcaa gagaatgcag catcccaagc 60
ctcctcctgc tgggtgctctg cctcctcctg cagggtgtgg ctggttaagg ctgaggctcc 120
taagtgcgat gatagactct cctcctgagc tgtcaccctt gattacacca cagtgtgcc 180
gcaagaaagc tgggtggtgg gcatctgact tgggtgtgtg tcctgtaaat aacagattca 240
ctggaatatg ctggattctc atgctgtaca ataaagaggc ttaatggtga aaaaaaaaaa 300

<210> 1564
<211> 269
<212> DNA
<213> Mus musculus

<400> 1564
tgtatagccc tcgctgttna ggaactcact ttgtantctc agcactantt agcagaagg 60
accaggagga acacaagcag aagttctcag ctgtacctct catgaggaag tgaagatcag 120
cgaagagtgg atactaacia gcattgctca gccggctatc ccagcaagca agctcagcct 180
ctgttattgt ctgttgagtc ctttgagttt tttggtgtat ttctctctat ggagtcctga 240
caaatgtagc ccaactacaa aatataagg 269

<210> 1565
<211> 312
<212> DNA
<213> Mus musculus

<400> 1565
cccttgctca ggatgnttga cgcagcctc aggagagtaa aggacagcan ggaaagtgc 60
taatcctgca cagaaccag gaccagatc tcccgggctc agcatctctt cctgtcagtt 120
ctgaacggnc tcagtcaaga gcagaactct aggcagtgtc ccatggaaga atccatcaca 180
tttcagccaa agcatcgaga tttgtcttct ttttctatca agctttctc aggtatttct 240
gtgtgggcaa ttaatttctt taccatcctt caataaata ctaacaataa agatgatcaa 300
aaagtgaag ta 312

<210> 1566
<211> 362
<212> DNA
<213> Mus musculus

<400> 1566
gcccttgctc agtgcttgnc tgagtgcacc naaaatgtgn cgtggngacg catnagggtg 60
ccttgctntn tnncccttna anctacacac cgaacttgga tgnnncttct gagacatcnt 120
cgtgaggaca cctgagtntt gnetccttnt ggttntgna atggtcattg aacntantgc 180
tggncantga caagcatgca gcnctgatcc tctgtggact catngntatt ggcagnctga 240
caggatgtgg aatcacccat gagacacatt atcagggtgtg cctgtgaaac acgtnnccca 300
agagattacc tgtgacagga attcccagct ggaatggtgg gtggcaccgg ttggccctgg 360
ga 362

<210> 1567
<211> 314
<212> DNA
<213> Mus musculus

<400> 1567
gccagagcct gggccagagg cctgcaaagc cctgtgtggt ggaaccggag gtacttcatt 60
taagaggacg cctgtccagg acccngtgtt canatgtcct ttgccataat gttaaccttg 120
gaacagcctt gccgtgtggag aagccggcct gaccatgatg ccaagttcca gatctttttg 180
tgccaggaca ggtggggagg gggttttacc agtgttctta actatactgt gatttttatt 240
attgccatgt ccagctttta agtgggggtt taacggtttt ataataaata aaagtttcag 300
gcagaaaaaa aaaa 314

<210> 1568
 <211> 226
 <212> DNA
 <213> Mus musculus

<400> 1568
 acggcagacc tctggctcct ggccacaact catcccagac tcaaagcagg aggggacctc 60
 tagctcccc aaaccatctc tactcaccoc aggacttccc tccccagcaa cctttgcctt 120
 gtccactcct aataccagtt tgcttccaac acgttcccca gagctttcag gcagcccaac 180
 acccacctcc cctgaagggc taacctctgc ctctctatg ctatca 226

<210> 1569
 <211> 209
 <212> DNA
 <213> Mus musculus

<400> 1569
 gaggtccaac agaacacgag agagaatact gcatgtgtac atcactggaa caagaatctg 60
 ttcggttttc cctgggaatc cagagtgtac agcctccgaa gaaccaatgc tatgcaacag 120
 gcagttcaca gtcgagttaa catcaatgtg gaatgagtgg aggcatattca atgcaataaa 180
 atgctgaata tgaaggatta aaaaaaaaaa 209

<210> 1570
 <211> 365
 <212> DNA
 <213> Mus musculus

<400> 1570
 gggagactcg ggcggcccct tgatctgcaa tggcattctt catggagtgg actccttcgt 60
 gatccgcgaa tgcgcctccc tccagttccc tgatttcttc gcccggtgt ccatgtatgt 120
 ggactggatt caaaacgtgc tgcggggcgc anagccctga ggtgcccttc tgcgctccag 180
 gcagcctaaa gctggggcga ccagcaggct ctagtgggaa aaaaatggag tggggtggac 240
 tagaccttc caggcttttc tttcacccac gcacccaccc acgcagcacc ccctggagt 300
 gagtcagctc tgttccctat tccatattgac ctcaataaaa actgagacat atttaaaaaa 360
 aaaaa 365

<210> 1571
 <211> 237
 <212> DNA
 <213> Mus musculus

<400> 1571
 aggaacctgt cttattgnga ccactgaatg ntacggccnn aattgggccc cgantcnent 60
 cgattatgga ctgcnttcag naatacantg ctttgaccc tctngtgat attanaaaag 120
 tttgnnntgn tcgnncnnta cngatnanaa atacttgtag ttcccccttt gcttgtgcat 180
 ttaagccttg agcctttctc aatacagcgg gaccttcttg ccactcaaaa aaaaaaa 237

<210> 1572
 <211> 152
 <212> DNA
 <213> Mus musculus

<400> 1572
 gccaggcctg ccaacctgag ttcaatagca gaaccacac agtagcaaaa gaaccaactc 60
 tgacctcccc tctccccctc ccctctcctt ccctctcca gtagtcaact cagagacacc 120
 caaaataaaa aatttaaagt taaaaaaaaa aa 152

<210> 1573

<211> 364
 <212> DNA
 <213> Mus musculus

<400> 1573
 gcaagctcct ggagagccag cccccgcccc tgcccccgcc ccatctcacc ccagtactcc 60
 ctctctcttc tctactatgg acagagaata cactgaggag cctgctacac acccagctga 120
 tctgggggacc agcggagcca tgaggctggg ttcagcaatt ctgggtttac toctgctcca 180
 aggctacagc tctcaacctc cgacaactca gacctcgcag gaaattctac agaagtcttc 240
 tcaggtctcc ttggnatcca atcancctgt gacaccaagg ncaagcacca tggataaaca 300
 gtccctttcc ttgctgact tgatgtcctt ccagccacag aagcacacac tgggacctgg 360
 caca 364

<210> 1574
 <211> 350
 <212> DNA
 <213> Mus musculus

<400> 1574
 gacgctgggtg actgttttgg gctgggcact gtcgtcgaag gtatgttcag ctatgacagc 60
 ccaaggacag ctactgagga catttgccctg cttttgaagc tgcacaccgt ttctgaattc 120
 togcagcgc tgaggcttat ctccgggcgc cacaccgtct tatctgaagt tttcttcctt 180
 tcgtcttctt gagaagattt ataaccaga aaagccacgc catgatttct gcttccaaaa 240
 ttgtattctg gttgttttat tttgctcctt gtcctccgtt ggcttcgagg atgctgttga 300
 gcaatctaca aattcccaga gtgtctgnga ctttgtaggc accggggccg 350

<210> 1575
 <211> 127
 <212> DNA
 <213> Mus musculus

<400> 1575
 gatgccctct cttagggttta gaaatcgctg gaataccaaa gagcaaccgc ttcctctggt 60
 gggcagctga ttcttatctg tacatgggac agggcggggg ggcagggggg ggggagttaa 120
 taataga 127

<210> 1576
 <211> 193
 <212> DNA
 <213> Mus musculus

<400> 1576
 acctgggtaa tgaccactga ctggctcttc ctaaggggccc tgtacttaaa ntcccaacng 60
 ccacatgtat ggggtcacaa ccacctgnga ataagcatct gcacgccctn ttctggtgca 120
 tctgtaagga cagctacaga tgntacttat ttataataat aaataaatct tttttttttt 180
 ttaaaaaaaaa aaa 193

<210> 1577
 <211> 185
 <212> DNA
 <213> Mus musculus

<400> 1577
 ggtcctctgc tgttttgggtg tgacattctc tctcgagtct gacaagctgg actggcctct 60
 gtgtttgctt cctgtctcc acagtatgcg atccaggacc tggaagtatc acaaacgaga 120
 accaatcatc ctgtttacat tttggactgt aaataaagga atttttttta atgcaaaaaa 180
 aaaaa 185

<210> 1578
 <211> 186
 <212> DNA
 <213> Mus musculus

<400> 1578
 gctctgctca taactgtagg caagaacgtg gtgcctcttc actccagaat ggggctgggtg 60
 aaaggcattt ttcttctcca aaactcattt ctcaagtcaa actataatga gacagcaagc 120
 tgtcaccagc agaagagact atgtatgacc tctattaaca aagggtgaatt aactgaaaaa 180
 aaaaaa 186

<210> 1579
 <211> 220
 <212> DNA
 <213> Mus musculus

<400> 1579
 gcaaactctgc aggagacaca gcgtgacggc tggactggag gtggcctttc ctgaagacgg 60
 cacaggcaga tagtgacaca aacggtcacc cttgaccac ccacagaagc taacatcagc 120
 ctggctgtgc tgtgtgcctt caggaagagc acttgacagt gcttaaaact cccgccaatc 180
 cactgttgca taaataaaaag tggggccaaa cagaaaaaaa 220

<210> 1580
 <211> 445
 <212> DNA
 <213> Mus musculus

<400> 1580
 agtgttttaa acggaccaac aacttgaaca atgccaagtc tcaaggacaa aaggatgctt 60
 taccaaatga agaggggaca gaactccagc ccattgtgag atagggacca agagaacttt 120
 gactacctgt gacaccgaga caaagtcctac agctgttttc acgtgaacta gagcacggaa 180
 gatgttaaaa ctatgtctat atgcatcaat ttaaaaggca caatattggc tgggcacagg 240
 gacacacatc tgtaattcaa aactggaaga ggctataagg ctagcctgag ctacatactc 300
 agatgttaaa tgctagcctg aatgctacat agagacctca tataaacaaa caaacaataa 360
 aggttggctc actggataaa ggtgccagtt gccaacccga ggaactgaat accccaggac 420
 ccacatggta aaaggagaga atcag 445

<210> 1581
 <211> 382
 <212> DNA
 <213> Mus musculus

<400> 1581
 actacaaagc aattggcaac gatacggaga ggggacgttt tctgaagtta tgaagatgca 60
 gagtctgaga gatgggaatt actatgcgtg caaacaatg aagcagcact ttgaaagnat 120
 tgtgctggaa aaagtagggg ttgaggccaa acagccaaat tctgccatca ggaagtgcgt 180
 caggggtgcan ctcatthaaga acgggaagaa gatcacagcg ttcgtgccca atgatggctg 240
 cctgaacttc attgaggaaa atgatgaagt tctggttgct ggatttggtc gaaaaggcca 300
 tgcgtgtangt gatattcctg gagtcnngct ttaagggtgt taaagtagcc catgtntctc 360
 tgttggctct atacaaatgg gt 382

<210> 1582
 <211> 541
 <212> DNA
 <213> Mus musculus

<400> 1582
 gcaggtgaca acgctgaatt ggtcctcagg agcggatgtt caaggaaccc tgcctatgca 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccatgctagc | tgccagtcct | aggttgggac | attccactgg | ggacatccat | gggagagcta | 120 |
| tggccattaa | caagtcctga | gccctgacct | gaagccatca | gtggcctagc | tgctctacct | 180 |
| gactttgtgg | cctcccttcc | tggatctctc | gcttacgaca | accgacaaca | aagatgtttg | 240 |
| actccagaag | atgctccccg | cggcccacct | gagaggactg | tccacacccc | acccactgc | 300 |
| gccctgtgcc | atctacctct | gagtccccaa | cttctcacc | atgtttcaac | tcccacccca | 360 |
| gagccttgta | ttccagatct | gagcagccct | tgcttaggaa | cctgaggtgg | ggggtgggta | 420 |
| ggcagaccca | ggggactgag | cagggagggg | aaggaggggt | ttctgctctt | ggctttcaaa | 480 |
| gttctcaatg | tgtgtagccc | tttgaataat | aaacatatgt | catataatgt | aaaaaaaaaa | 540 |
| a | | | | | | 541 |

<210> 1583
 <211> 390
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1583 | | | | | | |
| gtggatctac | cttaacgata | agaacctatg | catccctgcc | agctcctcct | ttgtctacgg | 60 |
| agcgggtcccc | ataggagcca | gtatttatgt | tatcggagac | ctggacacag | gtaccaacta | 120 |
| cgactacgtg | cgggagttta | agagaagcac | gggcacctgg | caccacacaa | agccactcct | 180 |
| gccatctgac | cttcggcgca | caggctgtgc | agccctgcgc | atagccaact | gcaagctctt | 240 |
| ccgctgtcag | ctgcaacaag | gcttggtccg | catccgggtc | cattccctct | gaagaggaag | 300 |
| angagccaaa | agtgagatcc | tgcccaagcg | catcccggtg | ctggcggcgg | caagtgcagt | 360 |
| gaagcagccc | catctcgctg | tgcgctgggc | | | | 390 |

<210> 1584
 <211> 106
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1584 | | | | | | |
| gccgcctctt | caccacatga | gnnttaaaca | taaataccct | accgattcnc | aactgcacct | 60 |
| gtngtgcaag | tgtgcagccc | ttanntcgct | ggttctactt | cctttt | | 106 |

<210> 1585
 <211> 137
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1585 | | | | | | |
| gtacgccaca | ggggcatttc | aaagctcaca | anattcttgg | ncacgcatnt | atgcctgtnt | 60 |
| nccnntaaac | ctcgtncagc | agaactggag | agntnttcag | tgccaagaac | tttcangtnt | 120 |
| ttactttgac | cctgaaa | | | | | 137 |

<210> 1586
 <211> 385
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1586 | | | | | | |
| tgagaaggga | ggcggangtc | tgacaagatg | taccagggtc | cactgacatt | ggaccgggat | 60 |
| gggaccctag | tccggctccg | cttcactatg | gtggccctga | tcactgtctg | ctgtccactt | 120 |
| gtcgccttct | tcttctgcat | cctgtggncc | ctgctctttc | acttcaagga | gacaacatct | 180 |
| acacactgtg | gggtanggc | tgnanggcac | tgncggatca | tcntgacaga | ngagnancn | 240 |
| ctcatggnet | actggnggg | ggcgggctat | tngtaaancn | agggtcang | annnangtnc | 300 |
| cttttacctt | ctatganana | tatanggcct | gngnntacta | aagctgggca | aaccccnana | 360 |
| ctnagaacct | tgccagcta | taaaa | | | | 385 |

<210> 1587

<211> 251
 <212> DNA
 <213> Mus musculus

<400> 1587
 agactgagag caccgaagta ccatttcact tccagactgt accctcggtac tcgacaggat 60
 ggaaatcaca acttcatcca ctggggctgg aaagcaggcc aagggtattac ccccagcag 120
 agaggggggag agaagcaagt aagaggtgca cagcccgcaa tccccgtact tgggagatgc 180
 atgcagaagg agctcatgtt ccaagccagg atacgacaca gagatcgtga gatgccagga 240
 cttggaaggt g 251

<210> 1588
 <211> 445
 <212> DNA
 <213> Mus musculus

<400> 1588
 tggctcctac ctcactactg gctgggtttac ctttatcctg nctatggatg cctgctacag 60
 tatccacgtc tacgggatga taaatgaaac ctactgcaag acagaagggt atatgaaaag 120
 tccccatca ctactatgaa caagggaaag atgagtgtaa cgaatatctt ctccatgaac 180
 atgccccgta tgggggacac aggttcacat cagagaagaa agtggtttgca aagtgggcca 240
 agaagcacag aatagtattc acacacccga actggacgct gtccctgatgc cgtganatnc 300
 cacnantntg nngngngntg tggngaaaaa angtgatgg tgctgaccgg tgtagcanga 360
 tgntcaaggg gtgaccatgg ccctggacat tctntggngg nggatctgac tctgttagna 420
 nttgaacttg gcgttccttg ggaat 445

<210> 1589
 <211> 310
 <212> DNA
 <213> Mus musculus

<400> 1589
 gactgagggg aaaccgcccc tcatgactca acagcagatg tctgctcttt cccgggaagg 60
 gatgctagac gccctcttcg ctctctttga agagtgcagc caaccgcgcc tgatgaagat 120
 gaagcacgtg agcagctttg tccagaagtg gagaccgcc aactgtgatc ataccatttc 180
 cggaaggag gcccgcaccac cagcattgta ccctttcctg tggggagacc tgcccactat 240
 ggttgcgtca cttcctggcc taggatcctg gaccaataaa aaggagaaaa ttcactgtta 300
 aaaaaaaaaa 310

<210> 1590
 <211> 422
 <212> DNA
 <213> Mus musculus

<400> 1590
 agaggagatc taaccttnac tntgaaactg tggctttttg cctgcctggn tgctgtttt 60
 gttggggcct ggatgccggg tgnatgccc caangcgct ttgaaaactg ctgcctgggt 120
 taccaccaca ngatcaaatg gaatgttctc cggcatgcta ngaattatca ccagcaggaa 180
 gtgagtggaa gctgcaacct acgtgctgtg agattctact tccgccagaa agtantgtgt 240
 gggaatccag angacatgaa tgtgaanagg gcgataagaa tnttgnacgn tangaaaagg 300
 ctnnnnncant ggaaaanagn cncanacttt cagactgana ggaaagaagt cnaaccatat 360
 gaaagtccaa ggggggagaa cccaacaaga cangngtgaa ggangccccc ctaagttatt 420
 cc 422

<210> 1591
 <211> 278
 <212> DNA
 <213> Mus musculus

<400> 1591
agactgagga cccagntgat ggtctgctgt tgccccattc anaaatgtct gccatcctca 60
agttaaaccct ctctggcanc accctcccag gcatgcccag aggtgtcttc tacctgactc 120
tagatccagt caagatgcca atgtgggtta accgtcattt catgggtgctg tgatggagcc 180
aggagatgac aattggaggg aagcaattgt tggtgccatg ctcttgaacc tccaaaatgg 240
ttaaataaac tcgggggttc tttttttaa aaaaaaaa 278

<210> 1592
<211> 128
<212> DNA
<213> Mus musculus

<400> 1592
tcacagactg agtttgacag gttnaaagca cnagaagaan aatactancc aangngcccc 60
agacgggatc gngactccan tgacngccat aagatnccct aaagctaagg cactgcagaa 120
aaaaaaaa 128

<210> 1593
<211> 254
<212> DNA
<213> Mus musculus

<400> 1593
ggccaaatac tacacaangg gggactgggg acaccgcccc ccctttacat catgaaactg 60
cogatgttac tggctnatgc ntggnggaca ccagcataca aagtcttgac accaacacct 120
canagggctg tgtttctgtc ccgtgacct catctagtgc ctggaaagac tagtgacaag 180
aacttgttgc caacttcta ttacctccct aacagntggg caataaacc cataggttaa 240
ttcaaaaaaaaa aaaa 254

<210> 1594
<211> 109
<212> DNA
<213> Mus musculus

<400> 1594
cgaagtctcg atcactagac gggagatgct gncaagtgcc ccagacggga tcaagactcc 60
aatgacaacc ataagattcc ctaangctaa gacactgcaa aaaaaaaaaa 109

<210> 1595
<211> 239
<212> DNA
<213> Mus musculus

<400> 1595
ggtttactga ccagtacttg aattgctctc cctggctggg ggtaacctct gcccttgag 60
ccttcccttg ttctacaat gccaaacctc cangtttagac ccagccctgg agctcatggg 120
gtgccttggc cctgccctgc acacctgctt ctctccatgc atccaggtct atcgacctga 180
agctgcaagc tggcccaaaa aggacaataa aacctgccac ttttgcatga aaaaaaaaaa 239

<210> 1596
<211> 366
<212> DNA
<213> Mus musculus

<400> 1596
cacggctgtg gtgacccaac agctgntgta taaccatcc gggagacccc gagggccaag 60
ccctgtcgtg ttagcacctg canatcgnga aggttcgcan aggcattatg gctcacagct 120
tggaggacct cctgaacaag ggccaggng tctnaacagg aaagntcttg ggnaccnat 180

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccctnnnntc | tggccacanc | ccgcgggaca | ccactattgt | tnttgtgnaa | aataataact | 240 |
| gnatagctnt | tnntgaggcc | ctnatnaatn | atcatccaan | tgnantacca | taggaaaggn | 300 |
| gatttgattg | ngaccancta | tttgganacg | ccctatcang | ttttattaag | ttagaccatt | 360 |
| tgacct | | | | | | 366 |

<210> 1597
 <211> 138
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1597 | | | | | | |
| aactgaggca | ttaaagacct | cattttgctg | agtggccgga | tattcctact | getggccctg | 60 |
| cttaccttag | tcattttccgt | gaccacctcc | tggtttaact | cactgaaacc | ttcgcaaggt | 120 |
| catctgaaag | aaaaaaaa | | | | | 138 |

<210> 1598
 <211> 427
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1598 | | | | | | |
| atagccctgg | aacggaaatc | atgtttggga | agcnggacca | accgctgaag | cacggcagga | 60 |
| ggaatgacta | tnataggatt | taaggatggc | tcccgggacc | gcagcatcag | aggaacgtct | 120 |
| agaacacacc | ttaagggaga | gaaagaccgt | tgtgagggct | ctcaggagca | agcacctata | 180 |
| ctctcttggc | aacttttctc | gatgtccagt | gtccacncac | ctcctagctt | tgagcatcgn | 240 |
| tgnctactcg | tccttgagag | cgtcngcaag | aaggaaatta | ctctgccatt | ttcaaccacc | 300 |
| cctnatccca | atcttaccat | acttatccta | gactggctct | tccaggacca | gatcttgagg | 360 |
| ctgacntaac | ctttngggtn | cccaaaattg | agnnccgggt | ggnccaaaaa | gggggttctc | 420 |
| acctata | | | | | | 427 |

<210> 1599
 <211> 153
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1599 | | | | | | |
| acgactgcca | ttggtcatgc | atacatggac | catacatgga | ccnnncatg | cgtgtngnta | 60 |
| ngaaanaatc | ctnatcacg | ngnnctttct | actgtttgct | ttngcagaac | atcctctctc | 120 |
| ttgtatctgc | ttcagctaaa | tggtccttca | tga | | | 153 |

<210> 1600
 <211> 496
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 1600 | | | | | | |
| ctgagggttat | ggagacaaag | gatatgctct | acattgtcac | agaatttgca | aaaaatggag | 60 |
| aaatgtttga | ttatctgact | tccaacgggc | acttgagtga | aaacgaggct | aggcagaagt | 120 |
| tctggcagat | tctgtcagcc | gtggagtact | gccacaacca | ccacatcgtc | caccgggacc | 180 |
| tcaagacgga | gaacctgctc | ctggacagca | acatggatat | caagctagca | gattttggat | 240 |
| ttgggaattt | ctacaagcca | ggcgagcctc | tgtccacgtg | gtgtgggagc | cccccgtagt | 300 |
| cagccctga | agtcttcgag | gggaaggagt | acgagggtcc | ccagctggac | gtctggaacc | 360 |
| tgggtgnggn | gcttgtagct | cctggtcttg | nggtccctc | cccttcgaag | ggcccaacct | 420 |
| gcctacgctg | agacagcggg | tactggaggg | ccgcttcgcg | atccccttct | tcattgtctca | 480 |
| agactgtgaa | aatcat | | | | | 496 |

<210> 1601
 <211> 409

<212> DNA
<213> Mus musculus

<400> 1601
acactgagtt gccagaaaac gtctactcat cggattgcta ctacnengaa atcctcaaag 60
caagaataaa atatgatccc ggagggatag atttaggctc tactcagttt tcgtcccatc 120
agaaagcctt tttgagctaa ggagaagaga gttatggctg gtgtctcccc tgctgtcctt 180
ggatgccag angtcacctt ggaaaggaac acggcantcc atgaagtcca agaaaatatn 240
acatttaggg gacagtttaa cactggcctc cagcaacact gacttttgcc ttcagcctct 300
tacaggaaac ctgggttttna anaatccaga tgaaaatgtt gncttctccc cattcagcat 360
ctttcactgc cttggccctt ccttgntccc ttggggagca aaagagcca 409

<210> 1602
<211> 220
<212> DNA
<213> Mus musculus

<400> 1602
ggctggcctt tctaagcagt taggagcnac gtcatgcatt ttttctaaat ngggccngtt 60
ttccagtgnc ancagcacag ccttgctngt acaanaaaag cggntggctc ctgcttcctg 120
gacactgctt gaagttccac tctgacttt ccttttgngg aaggaacann aattccgtgn 180
gaatgtngta aagcttgaaa taaacccttt tttctcccc 220

<210> 1603
<211> 165
<212> DNA
<213> Mus musculus

<400> 1603
gaacggggag aaaatggttt cctggcttcc ctgtcagttc aagaacatcc ctgcctcaga 60
gcctttgaag ntacaggata gctaanaact cttgtagtga accatggctg cttctgttnc 120
cttnagaact ctgcttacat attaaagatt ctttggaacc ttttaa 165

<210> 1604
<211> 172
<212> DNA
<213> Mus musculus

<400> 1604
actgaggtga ggaaaccgag gctgaacaaa ggttattgtt gagaaatcac acaggcagtg 60
aatggtagaa tggactgaga ctggagcccc agtggtgact cagccattga cacgcaagcc 120
tgcttatact gtctcacttt tacaaatcat gaataaaaat aagaaatgaa ta 172

<210> 1605
<211> 146
<212> DNA
<213> Mus musculus

<400> 1605
gggagagggg gaggaagaag gtggtgctag tgggagggtg ggacatcagt ggggaaccag 60
tgaccaagca gttactgtt cctgaggctc aaacaggctc caagtaaaaa tttatacctg 120
aataaaagat ttcagaagaa agaaaa 146

<210> 1606
<211> 448
<212> DNA
<213> Mus musculus

<400> 1606
 agcctgaggt gttcggctat gacangatga agctggatgt ctccctccca gacgctggct 60
 gccagcaact cctggagcat gaatgcaagc tatgtacttt ccaggagagg cgaatgggca 120
 cacaagtagc tgctgaccct ctggtgaata gtcaaaggga tacatgggtcc gaaccagcga 180
 tgggaacagc aaacaaggct ttcccttgga aggtcccagc aaggtgtctg gacccacggc 240
 caagtgcacc tgctgtttgt accaaggaaa gctggagaga ggcaggctga gtctgtctgc 300
 aggacgtta ccggatgcca gtctgagtcc tcaactcggc tatcatgagc caaggagaaa 360
 aggagattcc tggactgaca gatactcctg ggcccaaaag aactgcanga atnggaaaagc 420
 ttttcagtct ttccaaaaga aagctgat 448

<210> 1607
 <211> 155
 <212> DNA
 <213> Mus musculus

<400> 1607
 tgtgccatag aggatgctgg tggatcatggt ntccaccag aaagaagccc tgctgttggc 60
 angttctgat ggtggaagag gataggactg acctggggct gacatctgtc tccccacgac 120
 ttacattaaa ggatattgcaa cctgaaaaaa aaaaa 155

<210> 1608
 <211> 126
 <212> DNA
 <213> Mus musculus

<400> 1608
 ccgatgccag gatggcaagt nontctcccc gcagtttctg tgtgatggan accgagattg 60
 cctagatggc tctgatgagg cccactgcca ggccaccact tgtggccccg cccactttcg 120
 ctgcaa 126

<210> 1609
 <211> 228
 <212> DNA
 <213> Mus musculus

<400> 1609
 ggtgctgggt acattttgtg ggagcgtggt cttttacctg gcttaactacc caaatctgtc 60
 cttgggaana atgtcaaga agatccaatt tcatcgtctg agtcagtgtc caggccacgg 120
 gaaacacagt cctcttatcc atacaaaaaa gacctccctc ttgctctatt ttgactactg 180
 ctaaccccca aataaatata atctggaaaag taaatgcaaa aaaaaaaa 228

<210> 1610
 <211> 111
 <212> DNA
 <213> Mus musculus

<400> 1610
 gcaggctggc tgcagggtc caaggatgaa tngnngggaa tggactttcc cccctttttt 60
 cccccctntt ttctaaagcg tgtctgccat taaaaatttg aaccttgagg a 111

<210> 1611
 <211> 239
 <212> DNA
 <213> Mus musculus

<400> 1611
 tccaataaga agaagttgag ccaggaaagt gctttcnttc aaagagtaaa ttaaaagaag 60
 acaccgtgag gctcagataa acaaggcgtt cgtgtcctga agaagtcaca gaaacagctg 120

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggtgtgagg | ggagagtgga | cacgtangag | aaatcggagc | tggtgtgata | tttctgtcac | 180 |
| aaaagacttt | cggaggaagg | gaaaagacac | gtttctagag | aatgaaagag | tgcagcgtc | 239 |

<210> 1612
 <211> 282
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 1612 | | | | | | |
| tatagcctga | cgggtgccat | gcttntctgaa | gatatngcct | tcctanntcg | aacggatccc | 60 |
| aggaagtgtg | ctcatagtta | atacacgtta | ctaactatag | aatgaagaat | ctgaaacncc | 120 |
| ctaggaaaag | cttttgacan | aacccaacta | tggatcttga | caccgttngt | actntccgag | 180 |
| attttgggtat | tttctgtgga | agccatacat | tgaagttgtt | gtctgcagta | acatgatagc | 240 |
| tcggtatgca | atgaaagagg | tcttcaactg | gaaaaaaaaa | aa | | 282 |

<210> 1613
 <211> 277
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 1613 | | | | | | |
| agattgtctga | ggcccgccang | accgtggagc | ngntnaagct | ggaagtgaac | atcgancgca | 60 |
| tgaaggtgtc | gcaggcagca | gccgancttt | tggctntctg | tganacgcac | gctaaggatg | 120 |
| accactgggt | gactcctgtc | cctgccgccn | anaatccott | ncngacaag | cgactctttt | 180 |
| gcaccctgct | ctganccctc | aagacagctt | tatcctcccc | cgcagaagta | tgaatccaat | 240 |
| aaacttggtg | acctggtggt | gcctgcaaaa | aaaaaaa | | | 277 |

<210> 1614
 <211> 189
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 1614 | | | | | | |
| aagctgcctt | cctccaaaaa | cttnatctga | ctgaagaactc | cgaanacatg | caactgaaccc | 60 |
| tacaaaagac | agacttgagg | ccttccanct | atagatgaac | tctcttgcca | aagccaaatg | 120 |
| gctgctgaac | tttggggaaa | gttacatgat | agtgaggaaa | acatagtatc | tatctagaat | 180 |
| aattaattg | | | | | | 189 |

<210> 1615
 <211> 213
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1615 | | | | | | |
| attcacttcc | ttttcnacgg | tggaacaatgt | cagcntaaac | tgacctgcgg | gggaagccct | 60 |
| gnatgatacc | aaccccgagg | gttgaaaagc | taccacgggg | tggtgtgtag | ggcgggctgt | 120 |
| gactttgttg | gtagggccct | tcagtgcatt | tgccagccc | tgagttcagt | ctccagcgcc | 180 |
| aaataaagca | gacacaacgc | actaaaaaaaa | aaa | | | 213 |

<210> 1616
 <211> 453
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1616 | | | | | | |
| gactgagggc | ctcaggggga | ggangcggac | nggtaantga | gctgacgnat | ntgatcagnt | 60 |
| ccacngcggg | ntcggaccag | gccgcctnac | agggacnccg | gancntnnca | cagctcggaa | 120 |
| ngatcagana | cganctgggn | acangnaact | gcggggccan | ntggngcaaa | aatggagaat | 180 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| aagggcaagt | cactccagaa | cttgaaggcc | cgggtcaggg | atggatgctg | ccaccagaa | 240 |
| ggacctctct | gtgaacaaac | cctaaagtat | gcctcatcaa | tgcccagaa | cccagggcct | 300 |
| cggtgcttcc | taattcaatc | aagcaaaactg | atgatcagaa | ttcatcatcg | cgggctcctc | 360 |
| accaagacag | acagacattt | ggacagacaa | gcgtcagtaa | tcaaggtgac | ccgctttttt | 420 |
| gangggngta | gctttcttga | ccttttgtca | aaa | | | 453 |

<210> 1617
 <211> 292
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1617 | | | | | | |
| catctgcaac | aaatgctgcg | ccnngttctt | tantctntat | gaatncatgg | aacgcaagaa | 60 |
| aagttgcact | aaaacccctc | ctgtgactca | taatgannga | nagccagggg | ccantgcctt | 120 |
| catgaggact | tttccagagc | tgccctgacc | caccagatgg | gcatnccang | ctcttgaggaa | 180 |
| aaacntgccc | tctgaatana | atncanntgn | atccccnaan | aanacctgac | cacctggctc | 240 |
| tctgctcatg | tctacaagaa | tcttctatcc | tgtcctgtgc | cttaaggcag | ga | 292 |

<210> 1618
 <211> 482
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| <400> 1618 | | | | | | |
| gactgagggg | agaagccagc | tgcaaccagt | atctccatcc | tttccaagcc | tgataaccca | 60 |
| tgtccagtcg | gccccatctg | gtcacagcaa | gtcagaggtg | gaatgagctg | aatcctgttt | 120 |
| atacactctg | agaaaaactt | aatctggagc | cagagtagcc | tacacagttc | tctttgactt | 180 |
| ttcttggtcc | ctttgtctctg | taattcagtg | accttgtagg | cccagtctct | cttctacaca | 240 |
| ctagaatagc | cataggcaag | gtctctgagg | tctcagaaca | cttcaactccc | ctcagctgac | 300 |
| tgtacccact | atggaacaac | ctcagactga | gaaccagcc | cctagtaagg | ccactagtgc | 360 |
| agaaactgnt | gaattttaaa | aaocatgagg | ccctgtctgg | accananaag | catcctcagg | 420 |
| acaaggatgg | tgcaaatgct | gatggagcag | ctggagaaca | ggagccagga | gaccaaactt | 480 |
| tg | | | | | | 482 |

<210> 1619
 <211> 322
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1619 | | | | | | |
| gttctgggtg | ctactgccaa | atgtttctgt | acttaagtgt | cgagacgccc | agcctcacca | 60 |
| ccgacttagc | actgcagcag | cctgtactct | gcaactggcc | atagacgagc | caccaggctt | 120 |
| ctagagtcgt | ctcagcacc | tctcaaggtc | acctgactgg | agcaactgcc | acgacgtgct | 180 |
| cttggtcaca | tcctgtata | gttctctggg | aaagctataa | atatatatat | tttggttatt | 240 |
| gttttngt | ttccgttaca | ttttatatct | tgnatttatc | gcccgatatg | ttttgtactt | 300 |
| tttgttttcc | taaaaaaaaa | aa | | | | 322 |

<210> 1620
 <211> 234
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1620 | | | | | | |
| ggggtagagg | tcgcgcaaaa | cnnncnnttt | gnngaccctc | accatggngg | cgggctgttn | 60 |
| actggagaag | cgaggtgttt | ctcaacagca | agctgcntat | tgggggcnaa | gagcntgttt | 120 |
| ttcccaaant | tattttatgg | ggacccaann | gggcgngnga | attttttccc | ccatccccca | 180 |
| tcnaaagaaa | cacccttgga | agntcnttgc | cttttaaaaa | aattcccccc | taat | 234 |

<210> 1621
 <211> 438
 <212> DNA
 <213> Mus musculus

<400> 1621
 cagactgagg cactgaaagt cgccagcaaa caccatcaga ttgtgcattt ggatctgagg 60
 agcaggcacc tggactcact caaggcaatt gtttttagag agtataatca gacctgtgaa 120
 aattacagct ccacaacgtc tctgnaggaa gcgagccttt ctatgtgttt ggattcaaag 180
 atcactcacg aaaacacaga agaaaaagng aggggccacc gactcactca agagaccttt 240
 gggacctacc ctccagccaca gntagagttc gcacagtnta agctggaaac caagttcaag 300
 agtaacatag gggggggcct cttggccgac aggaaaagac ccttccggcg ctttgtaaag 360
 tntccagtc cacatctttt ggaagccttg aaaaccttaa ctccccccga aatgcanann 420
 ccccaacttt ttcttggt 438

<210> 1622
 <211> 256
 <212> DNA
 <213> Mus musculus

<400> 1622
 aaaccaagtt ccaggagctg nggaagctca tcgaacccat gcccggnatc cacgtgagcc 60
 ccgagcagca gcagcagcan ctcnacagnc tccgnaagca agtgaggacc atataacgag 120
 ctgctgcaga agtacaatga gcctntgcat gttttgagat cccaaggac taggccagcc 180
 cccaggagag ccgcccgtca gacggaaaagc atnacgcggn gctccanctt cttgggagcc 240
 ccagctcaaa actgtg 256

<210> 1623
 <211> 159
 <212> DNA
 <213> Mus musculus

<400> 1623
 ttctcactgg gagagctgna gggtcacctg ncatatgacc tgaaccgggc cagngcngga 60
 atganaagga ctctaccag cacctcctcg cagtngggag caanacgnca caatgttagg 120
 tctcgatgga agaggacagt ggacaccgag ccccggcgg 159

<210> 1624
 <211> 132
 <212> DNA
 <213> Mus musculus

<400> 1624
 gaggaactgg gagggggagg caggagggcc aaaagttcaa gaccaccttg gctacataga 60
 gaatttaaag cctgcctggc ctacatgaga cttgtgtctca aaaaaattaa agatttaatt 120
 ataaaaaaaa aa 132

<210> 1625
 <211> 341
 <212> DNA
 <213> Mus musculus

<400> 1625
 cactgagact ctacaggatg atgntntgaa aaacatnttc nnaactacat gccagnctgc 60
 tttgttncct tcttntacc tgggtctccaa atggaaanan tccggnacga atnccctcagn 120
 nggganaccg nagtcttttt cactctggga tcacccacgn gcagcatctt cctgtgntgc 180
 tgaanacat ttntcttttg gacaaccatt cgagccacca atgtgggtnt ctgtgtgtgag 240
 acacatcctg taaatgctat cacatttgct accagagaaa ttctctgcag attccaaagg 300

ttgagggagg acaaaagcta gaactgtaat gaaagcgggt t

341

<210> 1626

<211> 342

<212> DNA

<213> Mus musculus

<400> 1626

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aactgaggcc | aatctgga | agaaacactc | tacatgatga | ccgtaagnac | antntccatt | 60 |
| acgtnacctt | tctaaccac | tcngaaagca | cgccaagcca | cctangcggg | gccacatat | 120 |
| gantcacctn | aacatactgc | ttgaaggccg | gaatccttac | ttcagtacc | tncagntggn | 180 |
| gggagangag | gggtacagga | atctggttct | tgggccagtc | cactcgaagt | gtgcttttct | 240 |
| gtcattgata | tcattcttgn | catgtgatat | ccacntgan | ncctttntag | nngaagcnnn | 300 |
| nngcncaaan | gctcaaagaa | cactggaata | aagcttcgat | tg | | 342 |

<210> 1627

<211> 352

<212> DNA

<213> Mus musculus

<400> 1627

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaggatccca | tctgccatgt | tnnaggtctg | ccctncactg | actgactaga | tctctanccc | 60 |
| ctatatgggn | acctgtcgng | atgctgcaag | atgaccctgg | ngngaaaatn | natgccanaa | 120 |
| tctgnggacc | aaggggaaca | caagccccag | tgatgaagac | agcaggtaac | acctgacaga | 180 |
| tgtgtgttct | accattatgg | tgcatactgt | gctccaacca | caagaaatgc | agacaacagt | 240 |
| ggagatcagg | gcaaggccat | tgtgacatgg | aacaggaccg | ctgtgctggt | ctcttcaggg | 300 |
| ttaggaaaac | tgaactgntg | ggatgctnct | gacanggtac | ccaatttccc | ct | 352 |

<210> 1628

<211> 685

<212> DNA

<213> Mus musculus

<400> 1628

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| caccagccag | gggcctccat | gggagcttaa | gggccaggca | gcagggtg | gggcacgagc | 60 |
| atggtgagac | accagcccct | gcaatactac | gagccccaac | tgtgcctctc | atgcctcaca | 120 |
| ggcatctatg | gctgccgctg | gaagcgctac | caaogctcgc | acgatgacac | cacgccggta | 180 |
| cctctacaac | cgcatgggct | actggagtga | ctgggtccgtg | cccatcctgg | tgacctcggc | 240 |
| tgctgctttc | acatacatcg | caggcctcct | ggctcctggca | ctatgtcaca | tcgctgtggg | 300 |
| gcagcagttg | aacctgcact | ggatacacaa | gatggggctg | gtgggtcatcc | tggcctccac | 360 |
| ggtggtggcc | atgtctgcag | tggcccagct | ctgggaggat | gagtgggagg | tgctgctgat | 420 |
| ttccctgcag | ggcacggcac | cattcctgcc | tcacacccaa | ctgtccagca | ggcctctggg | 480 |
| gcagaagaag | ccttgaggac | caggtgaacg | acagactgat | ctgacctcan | gttcccacag | 540 |
| cagcggccac | aagggcaatg | ggccacctgg | gcgaacacat | tgggctcagt | caagcatggg | 600 |
| ccttttggcc | aaaaggttgc | ctacagtaga | aaggaacca | aggggcaaag | acaattaaaa | 660 |
| gctgccatth | tttgaaaaaa | aaaaa | | | | 685 |

<210> 1629

<211> 323

<212> DNA

<213> Mus musculus

<400> 1629

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgagggc | aggtaaagat | gngagtgaga | cacacgagca | cctgccagta | gcctgcacgc | 60 |
| gggatgcagg | cgtgggatgc | aggcgccac | tggcaggcgt | tggttggtcc | aagggttgca | 120 |
| gctctccgtc | tgcccatgct | tggagagatc | cgttggttct | gctcctactc | aaagcacaca | 180 |
| gaaggaaacg | ctggcacatc | ggttctagaa | taaattacca | ccctgtggaa | agaccaagcc | 240 |
| gcttcctgtt | ggaggacccc | caaatgatgg | gagacagttt | tctgttaaaa | gaacagtaaa | 300 |

gccatttctat atacaaaaaa aaa

323

<210> 1630

<211> 202

<212> DNA

<213> Mus musculus

<400> 1630

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ccgcccagcc | tgccctnctat | tagggacgtg | tcccggaaca | ctcttaggga | gtggtgtngg | 60 |
| catcataact | tgagtacgga | tggttagaaa | gttgaggctc | atttgagact | tcggagacac | 120 |
| tcctattnta | aacaagantg | ntatattccc | natacatctc | gggaggccag | aatgannnag | 180 |
| ggtcccaaga | aatccaagat | ag | | | | 202 |

<210> 1631

<211> 303

<212> DNA

<213> Mus musculus

<400> 1631

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgagagtacc | tgatacatc | cctggggctg | accccatctg | atcgcgctga | atttcatcat | 60 |
| cacctctttt | ggcnngcna | gcgcaaggct | ttctccgaaa | gtgaagggtg | cagacaccga | 120 |
| cttcgatggg | gtagaagtc | cgagtatttg | aaggttctcc | gaaaccagaa | gagccgctgc | 180 |
| gacgcagcgt | catctatata | cacggaggag | gctgggccct | ggctagtgca | aatancagct | 240 |
| actatnacca | gctnntcaca | acaatggctg | angagctgaa | ctccgtntct | ctttctattg | 300 |
| aat | | | | | | 303 |

<210> 1632

<211> 312

<212> DNA

<213> Mus musculus

<400> 1632

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| agcctccccg | tcgtcctatg | gattggcagc | ttggtgctgg | ggctgcttgc | actggtcttc | 60 |
| cttgccctacc | gcctgtggaa | atgctaccgg | ccaggctctc | gcccagacac | tagctcatgt | 120 |
| acacacctat | gaagctccat | tatgccagac | taaaggaggc | agagagtgc | cagctgcagg | 180 |
| atttggggca | tcaagatgat | agtgtggcct | ctttccttgg | tggtcagcac | atctataagt | 240 |
| ttctcctgac | ttctgggctt | ttctgcctgc | tggccccagag | ctaaataaaa | gccccgtatc | 300 |
| taaaaaaaaa | aa | | | | | 312 |

<210> 1633

<211> 117

<212> DNA

<213> Mus musculus

<400> 1633

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| actgagggttg | agggaagctg | aggagtgacc | tgggaccttg | cctatgatgg | acaaaaccgn | 60 |
| tgagctccat | acctaaccct | tttaaaataa | aattggatat | tgccgagaaa | aaaaaaa | 117 |

<210> 1634

<211> 452

<212> DNA

<213> Mus musculus

<400> 1634

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| tottgacgga | actctncang | gcnggacagg | aggcatggct | gggtccatat | ntntactgcc | 60 |
| nogaatcgat | gaantnganc | tcggnaccgg | gggatcgaag | atcctatncc | gaaggncccta | 120 |
| ttctntagaa | agtataggga | ctccggcctg | nggcnnngnc | tcngcnnent | natgcttact | 180 |
| naactggacca | tacngnncat | catcttcctt | gaacaacgac | tctgnagnnt | gggccgggcc | 240 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| tntggacnng | acagagcgta | ctaaacgaga | gtacttcgct | tgggtctactg | cttcgtaaga | 300 |
| gtttttcttc | ttctggctac | acaaataaga | ggaagtggag | aaactcacag | gagggcttgc | 360 |
| ttttacagaa | aatctgntta | acctgctaag | cagcctgcag | aaggncagag | gcagntncat | 420 |
| ttttagactt | cgccctcta | acttttctct | ag | | | 452 |

<210> 1635
 <211> 392
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1635 | | | | | | |
| tgagctgggt | cgatgccag | acctgaatgc | tgtgctccag | ctgtggcctc | accggtgctg | 60 |
| aatagagagg | aagagccacc | ttcatagctt | acatgagntg | gctntggntn | tacaacctat | 120 |
| gntggantnt | acctnagtnn | gactggatga | nacnannntc | ncgcatntan | atnntnatcc | 180 |
| nncanntgag | gnctcgggnc | tttctctgca | ttgctanang | acacaccctc | aatcctacca | 240 |
| atctaagtct | ccgccttttg | tttgccctgcc | ctcctccctt | agactcctca | tgcattcatg | 300 |
| cacaatgaat | gtcatctttt | tattctctga | ttccctttta | ctttaatctc | aaactcttga | 360 |
| caagactttt | actctgtcct | ataaaaaaaaa | aa | | | 392 |

<210> 1636
 <211> 153
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1636 | | | | | | |
| gtcccccaat | gacccggtan | caaaaagaag | acatanaaaa | cacnctgntn | tggccnatgg | 60 |
| notcaacntc | acnnnctggg | ggacaggctg | cccatctcgt | tgataaattg | actatgccaa | 120 |
| taaattaaca | tggttcactt | tcaaaaaaaaa | aaa | | | 153 |

<210> 1637
 <211> 331
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1637 | | | | | | |
| ggatgttctg | atttcctgat | tgcctcanac | gtaccnaatc | ntnatntaaa | ccaaggatcat | 60 |
| gacatgttgc | caccgcacac | gtgtncattt | tcaggattat | caagtgaatt | catgntncnn | 120 |
| nccccantca | cctcttcact | cnctgaatag | aaggacttgt | aaagtaaaat | agcccatgag | 180 |
| agagaatgca | catatgggag | aacagangtt | ggggccctat | nagaagtgnt | ggcacctgca | 240 |
| cctgacctgt | gagagtnact | gttccagggt | tagctntgag | acatcactca | ttggcttggt | 300 |
| ttggaattct | tactctaaat | gattcatttg | a | | | 331 |

<210> 1638
 <211> 196
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 1638 | | | | | | |
| cctcctggac | ctggaattct | aaaggctgga | agctgntggc | natggatgcn | agccctgtga | 60 |
| acnanngtcc | tntgcatgan | ngntccacac | tcctaaactgg | tgagccatcc | ttncctgtccc | 120 |
| naaagaaaga | acntaaantc | ntntctccat | cctgacttc | aagctgttct | acagagcant | 180 |
| agtgataaaa | aaaaaa | | | | | 196 |

<210> 1639
 <211> 101
 <212> DNA
 <213> Mus musculus

<400> 1639
 ggtaagtctc gaaattcgat atcaagctga tccggaaccc ttaatataac ttogtataat 60
 gtatgctata cgaagntatt aggnccctcg aaaaaaaaaa a 101

<210> 1640
 <211> 541
 <212> DNA
 <213> Mus musculus

<400> 1640
 gtgaaaaaga aggggtcagac atatatgaag aaaacctgca ctaccactt ctgcttattt 60
 taaccaaaac gggatagaag aaaacatcag atgcagagaa agatttccac actatatgag 120
 aactccgcca cagcgctctt gggactcagg gctccacca ctttcgaaca ttccgcatct 180
 tgggactccg cccagcccat tactccggcc ctccgcagct ctcccaccct ccgcagcgcg 240
 ctcgctccca ccagtccttt ttaaggaagc ttgttgctct tccgtacca aaccttgtgt 300
 gtttttctgt gtcagcagcc tgtcttagat cagaatttga cttgtggagc aatctaaata 360
 gttttctctc taaagcaciaa tttcttttga tgatttccac ctgccgcccc cctcctttt 420
 ttttaattgc ctttgttctt gtttgtaaat agtattcttt atccacaaac acagaaagca 480
 tcaccttctt tttctggata aataaaciaa ccttattttt ctgatattct aaaaaaaaaa 540
 a 541

<210> 1641
 <211> 291
 <212> DNA
 <213> Mus musculus

<400> 1641
 ctttgaatcc ctttggaacc tangaagcnc tnttgaagag atcctagcag ccagaggaga 60
 ggaggtaacg cgagtgtctg gtgacgggtg cctggaactg attctggagg ctgctgtacc 120
 ccctgacacc ccagaagggg atgaggatcc ccccaaccct ggcaagatgg gacagagctg 180
 atctgcatac tctacagct gcagactcca gtcttcccaa aagtcgctcc cttcacttgg 240
 agcctcaciaa gcctgtctgt gttccttgtc agtaaaaaac catcacctcc a 291

<210> 1642
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 1642
 ttcaagctcg ctttgctaaa cttcgaacna gaacncatca ctccataaagg tcccagcggc 60
 aagggggcca cccaaaangt cngtacnccc atgtactatg tgt 103

<210> 1643
 <211> 502
 <212> DNA
 <213> Mus musculus

<400> 1643
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 ctcttctccc ccgctctgcc atgggatatg actctgggag cacctgctct ctcccgtaac 180
 aaaagactgt ggcttctgt gtctacttag aaatcagttc tgcttcccaa agagtattta 240
 aaaccagact catttaatca aagtgaaggg ttgcaatcga ttggtctctt actacaaaag 300
 cagttgatag cacatgtaaa tccagcact tgagaggtag aagaagcaag aggatggatg 360
 agaggttcaa acgcatccgc agctacgtcg aaagttaaaa agcagcctat gccaaacagg 420
 gagagtcctt gtccccaccc ccacccccaa aaaagagcaa aagcaaacca catgatttat 480
 aggcaaaagc agtgggaaag ac 502

<210> 1644
 <211> 191
 <212> DNA
 <213> Mus musculus

<400> 1644
 gaatattcct agcataaatt tatatttcca acatcaattc gggtcattgc ctctggtagg 60
 acgcacnatin atantctcaa canaaaaggc agcgcatcan tacacacana ctcaaacttg 120
 ctctgtcatt tactcatcgt tgccacanac tacctactaa canttatntt ttgacatgga 180
 cactgcttta t 191

<210> 1645
 <211> 193
 <212> DNA
 <213> Mus musculus

<400> 1645
 gttgctcctt gcaatcgtct tgctctcttg gggattcgtc atctatgcat cgactgtagc 60
 tgcacacaga caactacaga aggagtcttc agacaagttc ttctgaacga acttttgtaa 120
 ttcttagcaa acacttcttt tcttcagatg gcacctatgt agactcaaag taaaattcac 180
 aatacaaaaa aaa 193

<210> 1646
 <211> 239
 <212> DNA
 <213> Mus musculus

<400> 1646
 ttaagcaccg gggccctggg aaaagatgtg gccgccatga ggcttggtat ccccatattgc 60
 aaccagagc caagggcttc tccctgttat ggttgctggg cgattctgag gcactcctcc 120
 acactccttt gtggcaccaa tcattgacgt gtgacccaac caagaagaat ccacgtggcc 180
 ttgtacttta tcctcactgc ttaaggtgcc cagaataaaa gctaaccctt tcttcttca 239

<210> 1647
 <211> 425
 <212> DNA
 <213> Mus musculus

<400> 1647
 gggatgagca gctggccagg tctgctgaag cctgggccac ccagtgcac tggacccatg 60
 gaccctcaca gctgatgaag tacgtgggcc agaacctctc tatccattcc ggccgggtcc 120
 gttctgtggt agaccttggt aggtcttggt ctgaggagaa gcgccattac tcattcccg 180
 ctccaaagga ttgcacccca cactgccctt ggctctgcag tggctcctgtc tgetccact 240
 ataccagat ggtgtgggca tcctccagtc ggctgggctg tgccattaac acctgtagca 300
 gcatcaatgt gtggggcaac acctggcagc aggctgtcta cctggtctgc aactacgcca 360
 ttaagggcan ctggatcgga gaggcaccct acaaggccgg gaagccatgt tctgctgtc 420
 ttcca 425

<210> 1648
 <211> 273
 <212> DNA
 <213> Mus musculus

<400> 1648
 atccttgaac ttcagantct nctagntntc cntcccaagt gcangcaggg atcacagaca 60
 ctgatccatt gcaccagct tacagggaag aatgggtggct gagtctggcn tgactgcctt 120
 aaatgaaatg atagaantgt ntcttttcan atnnttntn tntgtgnatt aaangtgtgt 180
 gtctactctg cttncagctg aaaggtccct gagacagncc aaagacacac cctgtagatc 240

gcctaagggc tggctccagg taccaagaat ggg

273

<210> 1649
<211> 264
<212> DNA
<213> Mus musculus

<400> 1649
cttccgtcag agaataagca cgtgtaccct aggaactaca tagtgaataa gagatgtact 60
gccacactgt aagccgcact acttatgtac tgtagcaaa taatgaagat tgactgaacc 120
tgtctaaaaa tctaaggaat gtaccataa aagtcacaat gaggtgttan ntgnngnatg 180
tgtgnnttgg gagcctctgc catttgtcag actgcacagc aagccaaatg tanaatggac 240
gaagtagtaa agctcttgtc acca 264

<210> 1650
<211> 460
<212> DNA
<213> Mus musculus

<400> 1650
catctctact gttagagact caggccagga aacgtctcta cttccccatc ttctacacct 60
accccaaatg gcaaccacaa gtccaatgtg atcaggaaga aacagggtcca cctcgaattg 120
gctgttacca tatctcaaca gaaaacacgg agaattcgaa attcgacggg attaaaggac 180
gcgtagaagg tttagagaaa gagagatgcc gctattgaat ctgctggagt ttacatccc 240
aagatgaaga cagcattcag aattgatgtg atttccttga atgtggctta ggaaatgtgg 300
acacttaaaa ctctcacttg aaattgggca caggtttgat gtagagataa ggacgggggtg 360
cggaatggag acccattttg tcattgattc atctgaccga taaggccata gtgcanttag 420
gtgatattcg aaagcttctt tgatgctctt tatgtatatg 460

<210> 1651
<211> 399
<212> DNA
<213> Mus musculus

<400> 1651
cttctaakat ccgtgtttga caatagcatc aagacctttg gagtaattga gagtgaaccg 60
tttgactggg agaagagtgg aactgatggc tccctgacaa ccaccaccac ctctgccacc 120
cctcagctgc acaccgcct gacccttget gctatcgaa ttgcaaatgc caccctcatc 180
ccaggagact tgcttcgaga aaatacagat gaagtgtttc cagatgaaca gcttagtgat 240
ggggagaatg gaatccctgt tgggtgtatca ccagataaat tgccctggatc tctggggcac 300
ccacgccctc aggaaaagga tgtctgggaa gagatggata tcaacaagaa caagataaag 360
ctgggaattt gcaaatgtgt tatttcttaa aaaaaaaaa 399

<210> 1652
<211> 207
<212> DNA
<213> Mus musculus

<400> 1652
tcgatcagcg gtggaccgna gagggagcat ncttcgcac agangtctac cgtgcacatt 60
ctggaanaga naatttttgaa ctctcatggtt accaaacgaa caannccaag actgatgagt 120
tgacctactt ctaagcngca aattctaaag tgatctgatt ccgttcatta gagatttagc 180
catgaataaa gaagcattct tcaaata 207

<210> 1653
<211> 310
<212> DNA
<213> Mus musculus

<400> 1653
gttctatcag aaataacttga gctgtgctga gggggcagga agaggaaagt tccagccaat 60
gaagagtcac gagaggggaat gtgcctttgc ttcgcgttcc ggagaccctc tgacttgctt 120
gcctagtccc tacaaccgct gagttgataa ttctgtccgg gagagcttct ctgcaggggc 180
tgctgggtaa tgcttgtgac ctcatcttcc ggttggaagc tgaactctga agggcttggc 240
agttctgttt ttttcttttt ttcttttttc tcctacaata aatttctctg tgatctccat 300
aaaaaaaaa 310

<210> 1654
<211> 554
<212> DNA
<213> Mus musculus

<400> 1654
gatgtgctat gaacaatttc ctcgagtccc tgcggctgtg acttccctgc tatgctggac 60
tataacatgg aactaggagc agagaggaac cctgcgggtc cttcctcttc tacattgctt 120
ttgtcaagta ttttatcaca tcaatctgaa acttaatttc taaacagaga atgtcatgat 180
gttgtaagtt tatagatggt ttatggatag gcctagtaat tagtgctgaa atgtaagtcc 240
tgtgtgatcg ttgggtgtgt ccaacatccc accagtagcc ttgggaggag cccaagtggc 300
cgcacaattg aacaagccaa agcccaagac aatgtatcct gctacaatga aagccttggt 360
ctactttaga aacctgattg ccagcaacat tgtatccagc ctatcacaca tgcaatgaaa 420
tggttaactct ttgttctgtc agagctaaat cactatttgg gcaaattcat ctccctgggtg 480
ngctcagcat tacagaataa tataatatct gagtaggaaa gtaggatnan ngaaatgggc 540
tttttccctg agcc 554

<210> 1655
<211> 286
<212> DNA
<213> Mus musculus

<400> 1655
gagtgtgatg cccagccggg agtatctcat cccatcagct acactaagcc cacagcaaga 60
tgcaggatta taaagctact ggaaacagca tagagacaac ctggaagagt gccctgctcc 120
acacagccct aaagggccca ggggagcact ggacacactg tcaatgaagc atccgtcctg 180
tcccttcttc tctgtttccc tgcccttttc actcttctgg acccagcctc tgaagactgt 240
catgtcctgc acaattaaaa tcttgttgcc accctaaaaa aaaaaa 286

<210> 1656
<211> 421
<212> DNA
<213> Mus musculus

<400> 1656
aactgaagca gaaagaagtg tatgtctacn gtctctggac caaaggcctc anagaaatct 60
gacctgggct tctgagaagg ggaccacaga gatactgttc tctaccagga tggttgcaat 120
ctccccttcc agatcaccga ttctccctaa gacacgcaca aaatgnccat ttggatacac 180
tgatgttgcc tcccaggagt caatgcgcac aaccaccctg aaatcctgca caaagggaaa 240
aatacaaagt caaccaaggc tggagttaaa tggccaatc tgaagcatca gactaaccag 300
atgaacagag cagagcacac acaggccgac ctgcaaacgg cggcttgacg aggcttactc 360
tgctctctgg ntgctggtct tggcaatttt taaaatggcc ggttggtttg caagccactg 420
g 421

<210> 1657
<211> 485
<212> DNA
<213> Mus musculus

<400> 1657

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gattcgctc | ccctgaagt | aaatcggatt | ttgtatataa | ggaatttgcc | atacaaaatc | 60 |
| acagcagaag | aaatgtatga | tatatattggg | aaatatggac | ctattcgtca | aatcagagta | 120 |
| gggaatacac | ctgaaaccag | aggaacagcc | tatgtggtct | atgaggacat | ctttgatgct | 180 |
| aagaatgcct | gcgaccacct | atcaggattc | aacgtttgta | acagatacct | tgtggttttg | 240 |
| tattacaatg | ctaaccgggc | atttcagaag | atggacacca | agaagaagga | ggagcagctt | 300 |
| gaactttctc | agggaaaagt | atgggcattc | aacccagat | ccttcccaag | gtggaatgga | 360 |
| caggccacgc | cgtnngnccc | ttgggttacc | ctgggnnctt | ctttcttctt | ttcctttttt | 420 |
| tnaatttagg | tancctggga | ataatttggg | ggaaatttnc | ctttaatttt | tggggggaaa | 480 |
| ccttt | | | | | | 485 |

<210> 1658
 <211> 400
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1658 | | | | | | |
| ataccaagaa | tttctaacca | aagtattaat | caggctcctg | ttgcaagatt | accagttgct | 60 |
| gcccacagaa | gagccattgt | ccacagagga | tctgatgcg | aagggtttacc | aagtagatac | 120 |
| caatggtgaa | agccagccac | accccagaat | ggacaacacc | cctagacagc | aggaagcagc | 180 |
| ttaagagaca | cgccaccctc | attccctttt | caccaccagc | tttcccttca | tttcttcccc | 240 |
| ttctctttat | aataacaaga | aggagggtat | gttggtatca | ggacctctga | aacctgtgac | 300 |
| atcacatagg | caacaatgtg | acctacacac | ttgttgccaa | gacaatggcc | accatattcc | 360 |
| cagcatccac | tggactcacc | ttccaccttt | atctttacct | | | 400 |

<210> 1659
 <211> 310
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1659 | | | | | | |
| ggaccgtggc | taggctccat | tcctgtttgc | tcctttctca | ggattccttc | aagggtcacc | 60 |
| tctggctgtt | acaaagtagc | tggagggaca | aataagaaaa | cccaacaata | gggcaaggtc | 120 |
| acaaagtttc | taaatgaaac | tgtacagaga | gatgaaagat | ttgggccttg | aaataggcgg | 180 |
| tttgtatccc | ttctccaagt | agagccctgg | aggcattttg | gaggcctggg | gtgtaactta | 240 |
| cagcacatag | cttttttggt | tctggagaca | acctgtcaat | aaaagctggt | ttccctggta | 300 |
| aaaaaaaaaa | | | | | | 310 |

<210> 1660
 <211> 260
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 1660 | | | | | | |
| ggaaatatgc | tggctagctg | gtgggagact | ctgcagttga | ccttgaattc | ccttgacctc | 60 |
| cctgtgtccag | acaaagattt | cccactccat | gctactgctg | aagtctccga | ccaatgaagc | 120 |
| agacgaggga | gaaccaatcc | cactcccacc | cattcttctg | cagccaacag | ctggattgat | 180 |
| ctccaaacaa | gtcggaagag | atgcgtaatt | gaattaaaaat | cataataaat | tgaagccaac | 240 |
| tctgttcgatt | aaaaaaaaaa | | | | | 260 |

<210> 1661
 <211> 104
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1661 | | | | | | |
| tatggcattt | gcctcgnntn | canggggttc | caagcagtga | gatcacgcag | ttagctgggt | 60 |
| tataccttct | tntctttctc | cctntgtccc | atctgagcca | gcca | | 104 |

<210> 1662
 <211> 434
 <212> DNA
 <213> Mus musculus

<400> 1662
 agggctatga tgaatcaaaa acctaagtcc ctggctccta ctcagacaat cctcagcaat 60
 tccgacatca acaaaagcaa gcaggaagca aattttaga cctcttcagt tttgctgagc 120
 tgtgttgggt atctccagat gttttctgta ctattctcag aggcataatt gcagtagata 180
 ggccagtgtt taagagcagc aggccagcaa caaagcaatg gtatcctaag tgggatctgt 240
 gctcttgggt gagctgcccc agcctctcag ccgcacacgg ggagtctact agtttgggca 300
 gcgaagacac atatctggct gcgcttcaat tactggcaaa cagtgatctg ggacttcagc 360
 ctnaaacaga aaccnancgg ttaatngtga tctagtggga gcctgcaggg gtttcttaag 420
 aggaagtact taat 434

<210> 1663
 <211> 361
 <212> DNA
 <213> Mus musculus

<400> 1663
 gcgtgcgcca tgcgtgctgga gtgaagtcgg aaaagacaag aactgaagcc aagaagagca 60
 cgaaattgaa atgttgtttt aatcctgggg ttatccggaa ttgggtgacc ttgagcgaat 120
 tattcaacct ctgagtactc cgtgtccaca tatcgagga gctatgtatt tgtcttggtg 180
 ttgttcttgt ttaaatgggt ttccccatt taactcgcaa actaaccac cgaggtagac 240
 tctgggaatg gaaagataag ctgagttcag gatttatctg gtctcctttt aagtcctttc 300
 attacttact gtgccacctc gtctaaatta aattcattgc tccacctgcc tcatgcaaaa 360
 c 361

<210> 1664
 <211> 348
 <212> DNA
 <213> Mus musculus

<400> 1664
 aggacaaatg cacggtatga agcctgacct acaccgnana agagaaanto ctinntcctg 60
 tgtgcccacc cccgaagtgc cctgagcctt gtcctcnngc aaagtgcctt gagccttgct 120
 ctccccagt atgctgtgag cattgtntctn nttnaaagtg cctgagcctt tgtntctncc 180
 cagtatgctg tgagccttgt cctccccagc ngngctgnga gccatgcccc cctcagccat 240
 ggcagccaaa atgccctcct gtgcaatttc caccatgcca gcagaagtgt tcanccaaga 300
 ataaatgagg gtttcccagt catcaggact gggaagtaag agaaatct 348

<210> 1665
 <211> 255
 <212> DNA
 <213> Mus musculus

<400> 1665
 agcaagttgc tggagaaacc canctctctg catgcctctg acgcaaactc tgccccaga 60
 gcagagcctt gaaaatgaaa accaggaatg aaacagggcc aggattacac aaatcttctt 120
 aaaagagaca aactcttagg tacttttgaa cttatctatt tggtttattg ttgatgcttt 180
 gctttctgag acagtcttat caggctccag ctggccctga actagctctg tgctggagac 240
 gacotcacco tgatt 255

<210> 1666
 <211> 148
 <212> DNA
 <213> Mus musculus

<400> 1666
agagtatctt gggaggccaa ccncaaaggt ctttnggatt aacncaccac annngcacan 60
tgtgagganc ggcntgenna cgcttacggc tatgcaaggc acagatcttt cccagcatgg 120
gaaagatcct nccctccctct ctctctct 148

<210> 1667
<211> 317
<212> DNA
<213> Mus musculus

<400> 1667
ggaaacagag ggctactcag gctcogacat taagctggtc tgcagggagg cagccatgcg 60
gcctgtgcga aagatcttca gtgtgcttga aaacaaccag tcagagagca acaatttacc 120
tgggatccag ctggacactg tgaccacaca ggactttctg gatgttttgg ctcacaccaa 180
gccttcagca aagaatctga ccgagagata cttggccttg caagagaagt ttgagtctgt 240
ataaagctgt gccagcctg acctggccag aggcagccga gagcctcccc agcgtgactg 300
ggatggaagg gaggaag 317

<210> 1668
<211> 357
<212> DNA
<213> Mus musculus

<400> 1668
gtctccgctt catttgtcca aacctgcac aagccaaggc cttggaggga acaaatgacg 60
gttctgagga gtttcctgga aggettaatc ataggaggca aaggtgggga aaagccacag 120
tggcagttag gctccgagg ctcacaacag tgcggagcct ataacactcc aggcctgaag 180
gggcagaggg agggggagct ttgtggagta agagatcacc tanaaagaag gttgtagggtg 240
gagccaggga ctttggagag aagctgggtg agccacaggg cttaaggagc atcaacaccc 300
cccattcccc actgtcgtcc ttctcggagc accaccatgt aaccaggaac accctgg 357

<210> 1669
<211> 170
<212> DNA
<213> Mus musculus

<400> 1669
gaatgaagac accggaggaa tatatcaaac cttgctgtgc caaggccccg tggaactcac 60
aagggggaag aaaaggaaca aaagnnntat nncnnnatnc aatnggntat cgnganaaat 120
tantcattgg agatattcac ggaagacatc ccangctgtg acagtgtatg 170

<210> 1670
<211> 160
<212> DNA
<213> Mus musculus

<400> 1670
gaagaagagg aagaactang tggttaagagc ggcctccagt ttcgaactac cttactagaa 60
ttggaaggct gagctcgagt cctcagagat caagtccagc cagagtcttc agagatcaag 120
tccagccaga gtcttcagag atcaagtccc agagtcttca 160

<210> 1671
<211> 685
<212> DNA
<213> Mus musculus

<400> 1671
gtaagggaact gccaatcacg tgaccgtgag caggcagtgg catcatcata actcgcggag 60

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|------------|-------------|-------------|-------------|------------|-------------|-----|
| ggacatccgc | cttgatcctg | gcataatcttg | cttattatctt | ttactttaag | agaaagtgtg | 120 |
| agtgagcagg | ggtcagttca | gtgttttagtt | ggttactttc | acaaccccca | aggcttgatg | 180 |
| ctgaatgggc | ttgaagatctt | tgtacatacg | tgtgtgcaca | tgcacacagt | gcagaaagcc | 240 |
| agtgttttta | tttgtgaggt | gtttttgtca | gtagttcaca | atatggagaa | taattcacag | 300 |
| agacttgata | gtaaagcttt | acaaagacta | aacctaaactg | aaacagaagg | gtgttcatat | 360 |
| tgctctgact | tcatactttg | gagcaagctc | ggccaatggg | ataatgactc | ttacctgaga | 420 |
| ttoccttaaa | ttcgctcagt | gatcacttgg | atacccttgc | aaatgagaaa | atgcagtttc | 480 |
| ccacctgcca | atcacacctt | cangctgtgg | gttttttgnt | ttggttttat | tgnggttaaa | 540 |
| aacgctatat | aacaccacat | gtgtgtgctg | ntatgtagtc | atatgtgggt | acgtgtgggt | 600 |
| gcttcacaat | gnacatgcat | cgtgggnaat | ttgccgttgg | ttttccctct | tagctgggtat | 660 |
| accacaatgc | ttggaaaaaa | aaaaa | | | | 685 |

<210> 1672
 <211> 257
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1672 | | | | | | |
| atgccagggg | agcagatgaa | ctgtcccttc | aaattggaga | caccgtgcac | atcctagaaa | 60 |
| cttatgaagg | taagtgaggc | ttgatggctc | cctgttgggg | atttgggatg | acgcttcagg | 120 |
| gtcttctcgg | gaaagtgtct | ctctgtcagg | gtgctacctt | ctcaggaagg | acactttccc | 180 |
| cacagataga | tgctcttcca | ggcaaagggt | gctcgggcag | ctattttgta | aattcagttg | 240 |
| aggctttaaa | aaaaaaaa | | | | | 257 |

<210> 1673
 <211> 107
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-----------|-----|
| <400> 1673 | | | | | | |
| gtacaggtca | agttcttggg | gccactttct | gagtttagaa | gacctattac | caaaagtga | 60 |
| gaactagact | gtgggaaaat | aaatggcttt | tgactacaaa | aaaaaaaa | | 107 |

<210> 1674
 <211> 398
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1674 | | | | | | |
| acatgctggg | gtctatacag | ctgaagaagt | ggctcttatt | atgagagaaa | agctaattcg | 60 |
| tttgagctct | ttgtacattg | atcagtttaa | aagactccaa | cacctgctca | aagagaagaa | 120 |
| gcgccgctat | ttacacaacc | ggaaagtggg | gcacgaggct | ttaggtagta | gtctcctgac | 180 |
| tggccctgag | ggactttttg | ccaaagagag | agagaattta | aagcgactaa | aatgtcttag | 240 |
| gcgataccgt | caacgctatg | gagtagaagc | cttactacac | aggcagctga | aggaaacgcg | 300 |
| aatgctggcc | accgatgggg | ctgctcaaca | ggctcacacc | actcgnctca | gtcagaaggg | 360 |
| cttaaccctt | ggggatgang | tnccctgtcc | aatcagct | | | 398 |

<210> 1675
 <211> 118
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1675 | | | | | | |
| taaatacaat | gccacaataa | tgactctgga | gcangttaag | aatgcagcag | taacagggag | 60 |
| acttgatcat | gttctctgga | atagtctaaa | ggaatgctct | tgaacaacag | gaattata | 118 |

<210> 1676
 <211> 193

<212> DNA
<213> Mus musculus

<400> 1676
 ttgatgaagt gccagccagt tcgtcggctc agtgaacctg gggagttgag gcgagaatat 60
 gaagaggaga taagcagggg ggaggctgag cgacaagcca gcaaggaaga ggaaaacaaa 120
 gccagtggag agtacatcca gagattgttg gctgaggagg aggaggagga gaaaagacag 180
 agagaaaaaa aaa 193

<210> 1677
 <211> 710
 <212> DNA
 <213> Mus musculus

<400> 1677
 atgttccgaa attaacaaat ataaacttta tccctggatc catcagttta gcaataatcg 60
 gagatcagct gatcagatcc gacccattct tttccctgat gttgaccccc acagtcttcc 120
 tcttggttct aactttttcca tgacagcagg agactttcag gagatttact ctgaatgcaa 180
 tgccctggag tgtattgcca cctgnttctt catagacaca gotcacaatg taattgatta 240
 tattgatacg atatggagaa tactcaagcc aggtggaatc tggataaatc ttggtcctct 300
 actataccat tttgaaaatc tggcnaatga actgtctata gaattgagct atgaggatat 360
 taaaaatgtt gttcttcagt atggatttca gctagagggtg gagaaagaat ctgtattgnc 420
 aacatatact gtgaatgatc tctctatgat gaaatactac tatgagtgtg aactgggtgt 480
 ggncggaacc acaataatgg tcttaagtgc tattaccag aagaacattt aataagagta 540
 aatgatgaaa tgacaactca nagtcaactat cggtgaccac aggacacaac cttcaaatca 600
 ntgggtgcct tcttaatnct aaccaattta caaatagnng ctattttctt aatgangcna 660
 ttgntttttt cagaatatac ttgccgggca aatttatccc acccagtata 710

<210> 1678
 <211> 345
 <212> DNA
 <213> Mus musculus

<400> 1678
 aagcctagat ttggaatcct cactcgggtg cagtgggtgg cctggtcgtc ttcattctga 60
 gagtctcatg aacctgtggg tctggttgtc tcagctgact gacctgggaa tggctagaac 120
 ggaacagcca agcacgggca tgtctgctgt cctcacggca gccctgttgc atctggcagg 180
 gctctagctc tctccaaaca tgactgctgc cagcccagtg ctgtgggatt gtctatagcc 240
 aagttttgta gagccagtgg catctggttt tgttgttgtt ttggtttttt tgttttgttt 300
 taatgtccta ataaaacctt aaaagcatgc acatcaaaaa aaaaa 345

<210> 1679
 <211> 194
 <212> DNA
 <213> Mus musculus

<400> 1679
 gctggctcga gtgtggaagn ctgcctgccc aaagaactgg acgtgaaact gntgactngc 60
 atttgatggt tgctttgggc ctgaantggg gncannnatn gagctcacc cennngagct 120
 attgctgaac aggtncactt nocccacatn gtaataactt tctttttcca ctgcctctgc 180
 tgggtgctgg gcta 194

<210> 1680
 <211> 270
 <212> DNA
 <213> Mus musculus

<400> 1680

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| ctgtgctgat | gtccttgcaa | aggcaggaga | agtccatgtg | acactgtgca | gaggacaagg | 60 |
| tggaaacgct | gctgacaagc | ctcagagaga | gtggcacaac | agttggcaag | tagttgccat | 120 |
| ggcagccctg | ggaggggttca | ttttaagtga | tgtgtgtccc | tttagctgtg | aggctgtgcc | 180 |
| aggatacaag | tgcactgggt | ataggttaagt | aagaccatgg | gcctaaacct | tctccccctt | 240 |
| cgtcttttgc | atgaagtatt | aaaaaaaaaa | | | | 270 |

<210> 1681
 <211> 261
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1681 | | | | | | |
| gatgacttcg | agaggcntgc | ngcgacctac | acagagcgtg | cgctgcgacg | actcttccgc | 60 |
| accttggatc | gnnaccagc | actggcggag | agagncntgc | ggaagggcaa | gcagantgag | 120 |
| ttcgagcanc | gcggtctcct | ntgcancctc | tggngngan | ctggngncac | cntgcancca | 180 |
| aagccaanna | actccctnaa | cttgngnnt | attatggtnt | tcaaantgng | gactgngaca | 240 |
| aagcaagttg | gtgtacagga | a | | | | 261 |

<210> 1682
 <211> 187
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1682 | | | | | | |
| ctgcttcagc | accagcctgt | ccagctgact | tccctgttgg | atcagtatgt | caaagagcaa | 60 |
| aacgagggag | attgtgccac | gtcagccaat | gagaagctac | atcctcccga | tcctgctcca | 120 |
| gatgcctagc | cggcctgttt | taccagctc | tgcccataaa | cacactctgt | ccctgtaaaa | 180 |
| aaaaaaa | | | | | | 187 |

<210> 1683
 <211> 394
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1683 | | | | | | |
| atcgatcaca | catggactgt | tccaaagatt | cgattggaag | agcaaccgtt | caaggtttgc | 60 |
| tttactctgt | gttctcttga | anancnagtg | aacngnacag | agcatgggta | cnaaaactggg | 120 |
| acgcanacat | ggacacangc | ccccactgan | tncttctgtg | ctngacaggc | acacctgana | 180 |
| tntgacntga | ntngagggtt | ctcaatgggt | gaggcaaana | gctatacatg | ttgacacacc | 240 |
| ttataaccac | aagcttaatt | ctcaagataa | gttgatatac | agaacagtaa | cttgctactc | 300 |
| tgtgaacccc | atcaccagc | tgtaatagcg | tctagacttt | tgaaaatgat | gccttaccag | 360 |
| aagtttgcga | tggggtgngt | tctttttgta | tcct | | | 394 |

<210> 1684
 <211> 136
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1684 | | | | | | |
| cttccaacct | tctattatnt | gggacatntc | tttatcttna | anttactttt | tttttctagt | 60 |
| ntatnccatt | nntangant | ctctcngtcc | aaaccttcta | ccacaacaat | ggacacaatg | 120 |
| ggtaccccat | taaaaa | | | | | 136 |

<210> 1685
 <211> 173
 <212> DNA
 <213> Mus musculus

<400> 1685
 ttaatgattc ttttctgctg gatcaagaag atgggtacta tcccagagcta gtatctcgcc 60
 agcaagaatt cactcggaca attcttctac ggcaaagctt tattgcttca tctgaaggaa 120
 gaccccgaaac aaggaaaatg gngctgctta tatacccttc cgtgagatgc cag 173

<210> 1686
 <211> 354
 <212> DNA
 <213> Mus musculus

<400> 1686
 gcaccgagtc aaaagcatgg tcagcagcat ggatgctgtc tgctctgctt cccgtggaac 60
 ctttccaagt gctccctttg cccgctgcct cttactctgc attctcctta aggaccaacc 120
 ttcttgatct tgatcgaaca acccaattta ttttagtttt aaaatttcct ccaagaatac 180
 tcttctagat ttggactcct agtttcttcc aaataatcaa gccaaagcct gagagcaggg 240
 cagacagctt tacttttggg aaggaaagca ggcttagaaa agtggtgtta cccagtgcct 300
 caataaaaca gctcagtaca aataaccatt tgggggggata aagaagtctt actg 354

<210> 1687
 <211> 300
 <212> DNA
 <213> Mus musculus

<400> 1687
 cctctgaagg cccaggaacc cggaggtgtt ctgctgagag tcgacatcat tggatggggg 60
 gagagcagaa gggagggaca cgaaaggcca tgggggagca gcancagcaa gaccctcagt 120
 cgacacattg caggtgggtg ggaggctgtg acanggnacag ttccagatnc cacaatcacn 180
 ccttgtnngn tntttccagg ntcngnaaga tggcaggact tgntanggac accgaccgga 240
 tacggacatn taatatccag ttctggtctc tnagcctggg caaattactg gagcgttttt 300

<210> 1688
 <211> 239
 <212> DNA
 <213> Mus musculus

<400> 1688
 ctgagtaatg gtcagcaaga cccagaaaagc agacctgggc ccacaactcc cagagaagaa 60
 gaaaaagaag aagaagaatg ngagagtggg tgcaaatgtc ncagaaccag agactcaata 120
 ctcagtctta aacagnaatg attattttat agacgcttct cctncgaggg ccacgtcccc 180
 ttctaacaat gtggatgagg tgcagatccc cgagatgtca ctgagcaaga gaaaaaaaa 239

<210> 1689
 <211> 133
 <212> DNA
 <213> Mus musculus

<400> 1689
 actgaggggtg gacctgcatg atttcttcct ggggatgtca tggctgaaaa cacacgacag 60
 aaaccagatt gagaaactcc taaacagagt gaaggaaactg gaacaggagg tggaaagact 120
 taagaaaaaa aaa 133

<210> 1690
 <211> 495
 <212> DNA
 <213> Mus musculus

<400> 1690
 ttattttattt ttggaaatca agttcaatat taaaaagaaa gagcacacat tattggaagc 60

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| cattttctact | aattcgntac | attntaactt | atgattngat | ttgaatactg | tcatggggagg | 120 |
| agctgtgagt | gctgggggaag | ataatgatga | cttaattgat | aaccttaaaag | aagctcagaa | 180 |
| catccgaact | gaaagagtag | agcaagcctt | cagagccatt | gaccgcggag | attactatct | 240 |
| ggaaggctac | cgagacaatg | ctnacnaaga | cttaancctg | gaagcacggg | aacatncact | 300 |
| tggcaaccac | cttgcattta | ttctgaantt | atgggaagct | tttgaactt | caaccatgga | 360 |
| tnatcttttc | ttanccctgg | gaagggtggaa | cccggatntt | tangntncaa | tgggtggngc | 420 |
| ttaatTTTTA | gggtaatttt | attttnggaa | attctctcct | ttataaaaagt | gagcntaagt | 480 |
| tttcattggc | ttctt | | | | | 495 |

<210> 1691
 <211> 427
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1691 | | | | | | |
| gactgaggca | tttcacccac | ccagctctct | aagcacggaa | accttggaca | cgtgaacatc | 60 |
| agcgccatcc | aggaacctct | cgcctttatt | ttgcctaaga | gagaaacagt | tttctgttta | 120 |
| gatgagcagg | agctggggcc | ggacatcgtg | gccccagctc | cagagctccc | tgcggagcag | 180 |
| cggagcatgg | agcctgtaac | agagaagagg | gaaccagggg | agccgctgcc | tcaggagccc | 240 |
| gtggaggggg | agccgctgcc | agccgagcca | ccgagtggag | gaggagccat | aggcagtgtc | 300 |
| ccctgcccgc | agcctgggga | gcagccctga | gggtacgcgc | ttctgcagcg | ggaaggtgtg | 360 |
| tgcagttgct | ttgccanga | tagcgcgggc | cctggggnat | ttgcactttt | ataaaaaaccg | 420 |
| cacctgg | | | | | | 427 |

<210> 1692
 <211> 352
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 1692 | | | | | | |
| agactgaggt | ctcactactgn | atgtttgatga | acaactgtcc | aagtcagtga | aagataaggt | 60 |
| attgtctgct | tgccgttaca | actctcctca | tgaagatgag | tctgaagacc | gaatctactg | 120 |
| gcaaaaaacat | gacaaagtgg | tgctgtctgt | cattgctggg | aaactaaaag | tgtggcccga | 180 |
| gtataagaac | cggactttat | atgacaacac | tacctactct | cttatcatcc | tgggcctggg | 240 |
| cctttcagac | cggggcacat | acagctgtgt | cgttcaaaaag | aaggaaagag | gaacgtatga | 300 |
| agttaaaacac | ttggcttttag | taaagttgtc | catcaaaggt | taaaaaaaaa | aa | 352 |

<210> 1693
 <211> 316
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1693 | | | | | | |
| agagcatggg | ttggacctat | tanatacaac | agagctgaac | atggaggatt | nctgatggga | 60 |
| ctttangcct | ctccccttct | ccacttacca | ctgcaagtcc | ttgagtgagc | agaaggaagg | 120 |
| agtaaaatga | agcattcttt | gggtcctagc | caagtacttt | aaaggaaaag | agaaatggcc | 180 |
| ttatTTTTCA | aatctctatt | tctttctgaa | gtgggtgcta | tatatagatg | ctatgagcct | 240 |
| tgncatcctt | aatgcgccat | cgcctttatgc | ttttgcctgt | ttgcaagtga | taggagttgg | 300 |
| gtagggaggg | ctttac | | | | | 316 |

<210> 1694
 <211> 414
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1694 | | | | | | |
| tttgccttgt | tagcagccgt | ttggtttcga | acttatctac | actcaagcaa | aactagctct | 60 |
| tttatcagac | acgtagttgc | tacccttttg | ggcctttatc | ttgcattttt | ttgcttttga | 120 |

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| tggtatgcct | tacacttttct | tgtacaaaagn | gggattttcct | actgcatcat | gatcatagca | 180 |
| ggagtggaga | gcatgcagca | atctccanaa | gtttctctga | ctatgttctg | cttctgactg | 240 |
| acccctgcgc | tcagtctcat | gtgtgcgagt | ctgttcaggc | atgtaccaa | acaccgtctc | 300 |
| cgttccagat | actccggtac | atctgagaca | tctgaggctc | gggccgagcc | cagccaagca | 360 |
| gaggatatgg | gcaccaagag | gaacatccga | naaacagatt | accaccttgc | gaca | 414 |

<210> 1695
 <211> 236
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1695 | | | | | | |
| gaacacgtcc | gtgtcataca | nongncaoct | tgttgaaggc | accnccgctg | ntnagcgtgn | 60 |
| aggcaagnag | nagcacnttg | acagncaaca | gcaccgacag | naggcgnncg | ccctttttcc | 120 |
| acacctcacg | gnggctggcc | cgaggcccn | gcnggctctc | attgggatgn | gggaccagtt | 180 |
| cntncgacat | ggtgggggcn | gactggagga | ggttgaaggg | atcacttgcg | aggtcc | 236 |

<210> 1696
 <211> 110
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1696 | | | | | | |
| gaagtctcga | tcactagacg | ggagatgctg | ccaagtgcc | cagacgggat | caagactcca | 60 |
| atgacaacn | taagattccc | taaagctaag | acactgctga | aaaaaaaaa | | 110 |

<210> 1697
 <211> 203
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1697 | | | | | | |
| acaaaaacac | tgaagaatat | tgtcaaagtt | ccagaaaaca | tggaaggcat | gaaagangtc | 60 |
| gnactggaga | aaaaccctct | gaaaatacta | aatgtggtaa | agcctttgca | tgtcacagtc | 120 |
| atccccaaaa | gtatgaaaga | nttcatactg | nagagaaacc | cnatgatggt | attcaagtat | 180 |
| ggtgaagcct | ttgtacatca | ctg | | | | 203 |

<210> 1698
 <211> 360
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1698 | | | | | | |
| ccagtagaag | acattttctt | tnntggagac | aaagggatat | ctcccacagt | gnggtttcac | 60 |
| cggctgctgt | tctcccgac | atcctgtccc | caagcgcata | nagaagccgt | actanggaga | 120 |
| ncgacaggca | ttgtgcccgn | actggggaga | cagcatacaa | ttgaatcgat | naagatnang | 180 |
| attcaagggc | ttcatgaggc | ttgtcggctg | gcgagacacg | tcctcctcct | ggctgggaag | 240 |
| agtttaaagg | tgacatgac | cactgagana | gatagatgcg | cttggtcata | gggaaatcat | 300 |
| naggcatgac | gcatttcct | ccactctggg | ctatggacac | tttncaaaat | ctgttttgac | 360 |

<210> 1699
 <211> 150
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1699 | | | | | | |
| ggattcctgt | gtgactgcac | ggntgcaatc | ggcgatgtgt | acttcaaggc | acacaaatca | 60 |
| gttctcgctt | cattctccaa | ttactttaag | atgttgtttg | tccatcagac | caggtaaacta | 120 |

aagtgccttga taataaccta aaaaaaaaaa 150

<210> 1700
<211> 262
<212> DNA
<213> Mus musculus

<400> 1700
gttgaacccc ttgaaaccct ctngtganag tctctatcac tanacgggag atgctgccaa 60
gtgccccaga cgggatcaag actccaatga caaccataag attccctaaa gctaagacac 120
tgcagatctt gactctgctg atttctatag gtgtggtcca aactagtcct atgccccatg 180
aaccaccataa ccttacttgg gttataacta acactgctac ggggactgta attaactnga 240
cctnccacct ttgcccccat tg 262

<210> 1701
<211> 106
<212> DNA
<213> Mus musculus

<400> 1701
agtctcgatc actagacggg agatgctgcc aagtgcccc aacgggatca agactccnat 60
gacnaccata agattcccta aagctaagac actgcaaaaa aaaaaa 106

<210> 1702
<211> 243
<212> DNA
<213> Mus musculus

<400> 1702
ttttagtggg ttgccttctt ggcactgcac tggcttccat aaggacattt tctacaagg 60
acagatgatg ctttgagcac aggactctac cccactctcc ctgtctcctt tctcactccc 120
ttctctttgt tccctttgtt tctctaccaa gtgagttggc ctgaggggtca ctggtgctcc 180
agcgcagcta tgtgtgtgac ccaacacaag ataataaact tattttaaac ttaaaaaaaaa 240
aaa 243

<210> 1703
<211> 139
<212> DNA
<213> Mus musculus

<400> 1703
gactgagggt ttttctgtgt tacctggcta tctgttaact aggctctgca gaccatgttg 60
gcctcaaaact caagaaattc acctaccttc tgccttccaa gtgctaggat taaagggtgtg 120
tattaccaca aaaaaaaaaa 139

<210> 1704
<211> 104
<212> DNA
<213> Mus musculus

<400> 1704
gaggatgca ccgaactgcn atcttcncga gttncacta aanactgac ctatntactt 60
taanaaaact ttncntgggt agggatgggc ctcccccttt tttt 104

<210> 1705
<211> 282
<212> DNA
<213> Mus musculus

<400> 1705
actgaggtac tgaggccatg tccccngagt ggnttcctnc tttgnetctt cttatggcan 60
caccaccttc aagtactttc aggacctccg caacncaggc ttggagaana gctatgcgct 120
cctcantggg ggttgctttc ccaccatctt ctccccctaac tnccccctgg tctgactgat 180
acaactccaga actggggatc ganggctgca ccancaccac tacagtogat ccaancagga 240
caacggggcgc accactgagc tcactaactt ttacaagaca tg 282

<210> 1706
<211> 315
<212> DNA
<213> Mus musculus

<400> 1706
gcctcatccg gggctgtttt gttgcgtccg aaganctgca nggactgcng ngnacccttg 60
gacannntag ntccgaacnc aancacnagc tccacnccgn gcagcgccnn gaccggnaaa 120
ggnatctatc acctttttaa ggagcacatt aaatgtcctc tctgattgaa gcctgccaag 180
agggtcagat atgtaaaggc cttgctacta agcctgagga cccaagttca atctccagga 240
cccaaataga ggaaaaggac tcttgaaagt tgtccttgga cccccacaca tgtactgtga 300
tgggcccccg tgtac 315

<210> 1707
<211> 259
<212> DNA
<213> Mus musculus

<400> 1707
gacctgaggg ggggtctttc atgaagtgtt tgctagtgga tcaagctgct gctgcctgct 60
gacctgaact gaactgccaa tttccagaca acacagatgg gagttgctcc aaagaacttt 120
tctaaaaagg tctttgccac tcaactttgc tcagcttgna tgttaactcc aggagtgcac 180
ctgaagacct aaaagcattt tacatgcaga tattatctcc aaacaataaa gngtgacttt 240
tcttttccaa aaaaaaaaaa 259

<210> 1708
<211> 140
<212> DNA
<213> Mus musculus

<400> 1708
actgtgggat ataacganc cttatgtgagc cnngangng angntaagaa tgtcanctct 60
ttcanaggaa ggattgaccg caaagaactg agcgattgan aaagaatgcg gcatcacagc 120
tggcaatccg aaagataaaa 140

<210> 1709
<211> 207
<212> DNA
<213> Mus musculus

<400> 1709
gcggaagacc tcgcctcctc cgantntaca tcatnaaagg tnattgacgn gctttcccta 60
gtggtgaaca ccatacagct ctttgggcc ccagtttctt gttaagcctg gctggggacc 120
catgtctgac cttatctccg tctctccta agcaatacaa ttttccctag ggaaaagatt 180
ctagaaatag taactactac ataaatg 207

<210> 1710
<211> 105
<212> DNA
<213> Mus musculus

<400> 1710
 tttaaatccc agctgaagtg actttgngct ccaggtagca gcctgggcag taggccataa 60
 ttactttcttg tggaactctc aaaggtcggc cggggaaaaa aaaaa 105

<210> 1711
 <211> 312
 <212> DNA
 <213> Mus musculus

<400> 1711
 aactgagatc tgggagagcg tctggaagaa caaaggcaac agaaaggaag aatgactgca 60
 gatgcgctca tggctggggc ttcatatccc agaagccata tactgataag tggaaaaccc 120
 agtgccaggg tgggctacct ctatacattt ctggacgagg agtcttctga ggcctccaaa 180
 accataaaaag ctgatgtcat gtactaaata gttttttgtc aacacaagct aaagtcattt 240
 gagaggaaag aacctcagat aacattttct catgcaactga gctgtacagc agcttgttgg 300
 gaattttcta tt 312

<210> 1712
 <211> 207
 <212> DNA
 <213> Mus musculus

<400> 1712
 gacacacaga atcacgcctg gngnnanccg ggccttgatg gaaaccttgc aactntnecat 60
 ttaanaataa agggagaagg gctgangaga tggctnaacg gntaaaaaca ctgantgott 120
 ttccaagagt cctgaattcn attcccanca accacatagt ggctnacaac catntgtaan 180
 gggatctcat gccctctttt ggtgtgt 207

<210> 1713
 <211> 418
 <212> DNA
 <213> Mus musculus

<400> 1713
 gaactgaggt gtataggtgt gaaccaagtg cacgtctagt tcccttggag gccagaaaga 60
 aggcgggtgtc ngatccccag gaaccatagt tacagatggt tgatgtggaa actcnaacag 120
 gatgcnactg ttttttnacta ttttganggn ccagccaccn nancitttaag gncngggnat 180
 ttttttnanac tgncantnnt gannncggan cnetccacaa tanaatntct tgnntntctt 240
 gtggccccna ggatnacacc gntaggatan gacactggcc ttgctttacc ttcagagtnt 300
 ggccttgcat aatggacnan attnattcct tcagttgntc tctgacctcc acatgcngtc 360
 ctgtgcatgg gtgtatgcat tcacatantc acacatcccc cgttggttaa taaataaa 418

<210> 1714
 <211> 118
 <212> DNA
 <213> Mus musculus

<400> 1714
 tgggcgggtg ttttggccaa cgacatgntc anacctgcac gagcncctga aagctgaact 60
 ggcagcccct cagctcattt tgtagccaa cttggccttg acgggggagg caagcggg 118

<210> 1715
 <211> 379
 <212> DNA
 <213> Mus musculus

<400> 1715
 actgaggctc cagctccaga ggtcagtgaa ggaggaagac acgggagcaa gactaccctg 60

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| aagggtcac | cnggggacta | aacctggaa | acaangganc | tnnccnnacn | ttcgtaanag | 120 |
| actnnggnta | taattntatg | gnocctanctg | tancttnggg | ctanagaggt | gnccaacagg | 180 |
| ccatngagnc | ccatctgctg | aaactccttn | nnaacatgag | ggagtggagg | gactnngnaa | 240 |
| acgccctctg | ccctccctna | ctcctnnggtc | cttaatgata | gttttgttta | natataaatt | 300 |
| tttatanttt | ngtntgggta | tacattttta | tctcaagggc | aatatttgct | ggggtttanc | 360 |
| gagttttaat | aaatatcc | | | | | 379 |

<210> 1716
 <211> 299
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1716 | | | | | | |
| gaagaagacc | taggagaggg | tgagaagtcc | acctgaagc | acgcatcaac | tngttcgttc | 60 |
| taaggaggga | atgctttctt | cgccaagaca | tcangaaaag | actggggcac | ccaanagacc | 120 |
| agctngactg | tccgcatggg | attaaggatt | gtgggagggg | aggcgtggaa | gcgnacttct | 180 |
| ggctagacaa | agggtaggag | tgaggagtgc | cggagacaga | atcatccaca | gttgtaaagg | 240 |
| ttttattagt | tatctttgcc | ttctgatgca | atgaacgcac | gtaagccatt | ccatccttt | 299 |

<210> 1717
 <211> 409
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1717 | | | | | | |
| aaggacttg | aaagatcaaa | acctgntgtc | cagcatttgg | gaacacttgg | gactctggaa | 60 |
| aggtggccac | tgaaaagcac | cacaggtctt | aatggctccc | cggaatcttc | ttagcactga | 120 |
| gaagctcaag | ctatggacac | tcctttcaga | caggcttgcg | actgtgatgt | catggatctt | 180 |
| ctgcctccag | atcctgatct | cagttttgag | tgcagtgtat | gcttttgcac | atgacttttag | 240 |
| ggcagatagg | gatgcaaggt | ggagtttttg | tcttttgagg | attcaggctt | tacctctaga | 300 |
| tattagtgtg | gttaagattt | gaaaatctat | agtaagacaa | tattactttg | gggaaaccat | 360 |
| cacatggaaa | taaaggctcc | cattctcgtg | gtatgtgtaa | aaaaaaaaa | | 409 |

<210> 1718
 <211> 305
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1718 | | | | | | |
| ccatgaagag | cagctggaag | agggtgatta | ctatcaagtg | gcatattatt | attacacagt | 60 |
| gaccctaat | tatgntgact | tnngggaaan | cttnactgnt | gattactnct | ngtttgnggn | 120 |
| ncaggatagg | tngaacaggt | tgnttatnga | ggtaacaach | acngaagcgg | ntnagactac | 180 |
| ngcngttn | tncagtnttg | ntacngaact | tatggaccct | caaaatcctg | naaccacgaa | 240 |
| accagggacc | acagaaccag | ngaccacaga | accagtgacc | acagaaccag | tgagtcaaatt | 300 |
| gggga | | | | | | 305 |

<210> 1719
 <211> 240
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 1719 | | | | | | |
| ctgcctggg | aagtaagact | tcaacgaaaa | cctgatgcga | cctctcctga | ttgctccggg | 60 |
| cogattcatt | toccagntgg | gggtgtagacg | aaagcctcct | gcctcccccac | aaagcaagat | 120 |
| ctgcctcacc | atggctcgtc | caagttcaaa | tatggnagac | tttcggaagn | gtnttgcgaa | 180 |
| cgcncngcac | atagccatca | tctcgggggc | tggtctgttag | tcgggagagg | gggggggaca | 240 |

<210> 1720

<211> 293
 <212> DNA
 <213> Mus musculus

<400> 1720
 ttacctttgc tctgtgtgtg ancaanggnc cggctcggca tggcaaggca cggcncaggn 60
 aggnanggna cagcacggcc atggcacaag gggcagtnaa ctcttgagc ccctacttaa 120
 agggcaagct tctgaggact cgggaantca nttgagagt gggccagatn agangacnta 180
 ngtggataaa ggcaatttnc tngccaaacc cgnatgactt tgagggntgg atncccccttg 240
 gggacctaca tgggtgggag aanagaaact gactccccac aagctagtcc ttt 293

<210> 1721
 <211> 264
 <212> DNA
 <213> Mus musculus

<400> 1721
 aacccccgtg gtttcaaaaag ccnggctggc ttgggtctct ttgggtggtc tcgcttgccg 60
 gggctcttgg gcaaccttgg ggaaaaaagc ccacccgata ttgctactg agggctctagg 120
 aaatgctcag caaattccac caccgcaacc acactacctt acctgctgca tccgacctat 180
 ggccatattt tcattgcttt aaagaagctt ttattcttgg atttggtacg cgattaaaaa 240
 tttttctaata gctaaaaaaa aaaa 264

<210> 1722
 <211> 472
 <212> DNA
 <213> Mus musculus

<400> 1722
 ctgaggcttg cttccgaaca ccatcttctt cccctcggag acccaatgga gaagggctgc 60
 agatccagga ggctgcacaa gctgcagtta gcctaagcgc caccaggggc gcgcctgcct 120
 atcgtgatcc gcgcctccgg acagcactgc ttcaggctcc agtgggtccag ggaaaactgt 180
 acgcggttgg gacagaagct atccggacct gcaggaaaaca agagcaggga cccacgtgta 240
 cagaggctgc agctgtaaat gcgacgtctt ctgcggcgcc tggatatccat aggagtcaaa 300
 gccaccgatg aagtcaactg aggaagagaa ggggaatact ttgctcacat aacaggcaaa 360
 cacgaagccg aacagctaag agagcggata acaatcagag agagagaagt tgtccctgtc 420
 cctctaccc acccaactca atgcctgtcc aaagcaaaaca ttttaaacct tc 472

<210> 1723
 <211> 103
 <212> DNA
 <213> Mus musculus

<400> 1723
 tggggagcgt ggattcttct acacacccat gtcccgcgcg gaagtggagg acccacaagc 60
 ctacnacaca gcagtnacc naggtatgagc aggaaaaact ttt 103

<210> 1724
 <211> 131
 <212> DNA
 <213> Mus musculus

<400> 1724
 cctgtggagc cacacactgn gcaccttctt actggaccag nagattattc ccccggaat 60
 ctgggntnqn ntncnnttg cttcataact gagtgtcngc aacatgtaaa attggagctt 120
 tgatcagcaa a 131

<210> 1725

<211> 188
 <212> DNA
 <213> Mus musculus

<400> 1725
 ctgttcaccc cgcttcaagg aagacaacaa aaggatggag gaaaacacag atgcagttga 60
 cgagctgggg aggtacaact agctgcttgt acattccttt agttaaaaca agctgggggtg 120
 ggggtgttatg ggatggctac agtagctgag toctattaaa ccgataagaa gaaacccaaa 180
 aaaaaaaaa 188

<210> 1726
 <211> 116
 <212> DNA
 <213> Mus musculus

<400> 1726
 gaactgagga aattccttca caaggaggag natgaagaag aaatctgtat ataatcagaa 60
 tgtgggtgat caggagtgtg acgacatgga aggtgatgan aacagccata ctgccg 116

<210> 1727
 <211> 412
 <212> DNA
 <213> Mus musculus

<400> 1727
 aactgaggg ctacagncnt ngtttcgcgg tcgcggcctg cnntgngagg angtagctgn 60
 gccgccaggg ntngcgggat tnngnatggg gacggaggac annnggagagg gnntganngg 120
 gaaactgaan ttctcccaga cncgntngac aagacaccga ngcncaggag ccgntggagc 180
 gntactttca ccnccttata ngggccaccn gcnatttcan ccatttnacc ttgtgggggtc 240
 tggaaacggg cccgggtcca aatgccc aaa gtgcatangg ccctaagttg gcccancctc 300
 tcaacancga ttcacgcccc ggtccctgag gactgagaac cagatcatga gaatgacagt 360
 cacagatccc ttctcaccac ttggagcgac tgtttctatt cccaataaat ga 412

<210> 1728
 <211> 384
 <212> DNA
 <213> Mus musculus

<400> 1728
 agatcttctc acagaaaatg tgccgtactg ngatgcgcc aacctatgaan caggtaaagc 60
 ttccaggata aacctatctc tgctccttcc cactttaaat acatacctgg caacggtcct 120
 ggacatgcac atgtttctnt ntgaagcgca cgttgcanat gagcgacagg ctgaggggcta 180
 cagaggagat agacatgcct ttcactgaca tgggcaactg aaggcctggg gaggcaggac 240
 gctcctctct ttcccttttg taggtctttt ggtcttccaa agctgtttgc caatgaagca 300
 ccttacccaa ttggtgactt ttcattctcat gggacataca tagctaaata taaaatgcta 360
 cattaaattg atgtttaatc ccca 384

<210> 1729
 <211> 414
 <212> DNA
 <213> Mus musculus

<400> 1729
 ctgagtatat gttagctgag caactctcag gagaaagcga cggaaggagg agcctcgacg 60
 agcctgggga caagaggctt acaaatttca tgactgccgt agaaccagct gctcatatta 120
 aaacctatga tttccccaga accaagggtg aaagccaagc ccaacaaggg cggtagcttag 180
 caaaatccat aggtcaccat aggtgggtcc ctgtagacaa gtggctgtca cctgcccaat 240
 tagcaaggct aaagagggga agggaaaact gctggagact ctggacaaaa agtagtacag 300

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaagagatta | tcagcataaa | caggcattaa | ataggaaacc | gtcactctct | gactttttat | 360 |
| ggacacaccc | ttcttgttta | ggaaacagaa | gaggatgaga | gtcatctgtg | atca | 414 |

<210> 1730
 <211> 247
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1730 | | | | | | |
| aagatctggg | acatgagtga | cgaggagact | gtctgaagca | agcaaccaca | gctcaggagt | 60 |
| acctggccct | cagcgcagga | ctggaccgca | ggactgggtga | tctgggccct | gccacctccc | 120 |
| tggtcctgat | ctccacatct | ccaaggacga | gggtgtacct | tctgccaccc | agttgcaccc | 180 |
| tttcctgtgc | catctcacca | gctctgaact | caataataac | cttggcattg | ccactgaaaa | 240 |
| aaaaaaaa | | | | | | 247 |

<210> 1731
 <211> 198
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1731 | | | | | | |
| aggaactcga | agaagccatg | atcgggagag | ctgcgagcgc | tgtataggac | tcagcttcat | 60 |
| ccagcancaa | cgcgcattga | aactcgagcg | ggctaaggcg | ctacggaaag | tccgtagagt | 120 |
| caaaaagatt | ttgaacgcga | atctctcctc | ccacctacac | atcttcaaga | agtgaagtac | 180 |
| tgggatactg | ccgcccc | | | | | 198 |

<210> 1732
 <211> 109
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1732 | | | | | | |
| aagactttgc | gttactnccc | gtgatnccag | gacgaacacg | ttgaatggac | ctttttaaaa | 60 |
| agaaagcgga | aggaaaacta | aggatgatcg | tcttgcccag | gtgtcgtga | | 109 |

<210> 1733
 <211> 228
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1733 | | | | | | |
| atTTTTgggc | cggagatgcc | cattgngcgt | nttignaant | ngtatgangt | cantaaatgt | 60 |
| atcaaccanc | gctagaagcc | netggcactc | tatgctgact | cnancaatga | cnaggcgatc | 120 |
| nagaggatga | tencagagac | atcaancggg | ggatgtgaca | ccaatggacg | gcattgtcac | 180 |
| atcactgtgc | ccactttgcc | ctttgggggt | gtggggaaca | gcggcatg | | 228 |

<210> 1734
 <211> 369
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 1734 | | | | | | |
| gtgatccct | ggactctgtg | agctggcagt | gcttggagct | acacagcttg | tgccatggac | 60 |
| tctgagggtc | gcaacgggtc | cggcctgggg | gccaagcaca | tcacagacct | gctgggtgtc | 120 |
| ggctttctcc | aaagctctgg | ctgtactcgc | caagagctgg | aggtgctggg | tcgggaaactg | 180 |
| cctgtgcaag | cttactggga | ggcagacctc | gaagacgagc | tgacagacaga | cggcagccag | 240 |
| gccagccgct | ccttcaacca | aggaagaata | gagccagttc | tttctgcaa | ctatcaagtc | 300 |
| attcagaaaa | gaggagtcaa | gagaggggat | gaggtagatt | tgaaataaaa | aactataatg | 360 |

aaaaaaaa

369

<210> 1735
<211> 403
<212> DNA
<213> Mus musculus

<400> 1735

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gtctgagagc | accagggcct | cagtccctgt | aaaatggggt | gccattccag | caagggcacc | 60 |
| gaggtggtag | aggagtcccc | gaaacctgga | gatcacgcgc | atggaggaga | gccgaaggtg | 120 |
| gagtctggca | ccgaggctgc | ggatgacaag | gatgcctcaa | cgaaggacgg | aacctctgag | 180 |
| ctgaagaact | gacctctttt | cttgggtgga | ccctcaactt | gtccctggaa | ctgcctttga | 240 |
| cctgtgaggc | cccacctga | agagctatcc | atggaggaca | gaaagagccc | tggttaggat | 300 |
| gtgaccttca | cggggcttgc | tctctggctt | tgggggagat | gaagggttaa | gcttgaagtg | 360 |
| ctcagtaaa | aggacaaagg | actgcttcat | tcctcttggg | gcc | | 403 |

<210> 1736
<211> 312
<212> DNA
<213> Mus musculus

<400> 1736

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| acttggtagc | atctttcaca | gctggaagca | tacttnaagg | tggaaccata | cccanacctc | 60 |
| cangatcgaa | agatnatggc | caccanactg | aaactganag | aggaacaagt | tgaggcttgg | 120 |
| ntnatccaga | gatncttgga | ggaggagatg | cggacccccct | tggccaggct | gnagnngn | 180 |
| gnentggatg | gtacctcttc | tccttnccac | aaagccctgt | gctgnaggcc | accaagctgg | 240 |
| aagnacnggc | tcattncat | naatnccnnt | gagtccttga | ccagntgctt | aaaggatagc | 300 |
| aaaactgtat | ta | | | | | 312 |

<210> 1737
<211> 512
<212> DNA
<213> Mus musculus

<400> 1737

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| gggccccctct | gtctgtctgc | aaggaagaga | tggggggcgc | agaagacagg | accttcccac | 60 |
| gggagcagaa | cgacttcaat | aatgctgtcc | tcaaaacagg | tcctgttcac | cggaagtcca | 120 |
| tctgccagcc | ataggggaaga | caaaagctaa | ctgggagccc | tgatgtccta | tagtcacca | 180 |
| gactggaggg | aagatgacag | cagggctccc | atacagagag | gaggtgaaaa | actcaaacct | 240 |
| ttggacagca | gcctgacctg | agtccaatca | agttgtgagg | gacagaggag | gaggcctcag | 300 |
| agtaacaggg | ggctccatgt | tctttatagc | aatcttagac | gaagctggga | ttcaaatacc | 360 |
| cagagtagag | ggaggaaaatg | tgtcaggggt | agggggtggt | gagnngangc | tnnnnggana | 420 |
| aacnctanc | tgantgaaac | ctnctttgcc | nattcatatt | tntcctgctg | gntcccanng | 480 |
| acttgcccttg | gantatcacc | tgtctcactg | aa | | | 512 |

<210> 1738
<211> 246
<212> DNA
<213> Mus musculus

<400> 1738

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atgaaagcag | gcgtgtagtt | gccggcatgc | gtgcacatga | tgacgtaatc | angntctgta | 60 |
| tcanaagctc | accagatgct | ncagcgcaca | cgacagccac | ggtcccaaca | cccagcactg | 120 |
| ccacttgctc | ctctccagtt | ctgtcgggat | gccacacgca | ctgcccggcc | ttttaagatc | 180 |
| tgaccggtag | cgcgggcgct | cagcctcggg | gcgggcccga | ttctttgcgt | ccagccccct | 240 |
| ttcacg | | | | | | 246 |

<210> 1739

<211> 420
 <212> DNA
 <213> Mus musculus

<400> 1739
 gtctctgatg ggcctagagt ttggagcgag aactgggaag cagagctcta gaagcatgga 60
 gaccataagt gaccatggtc actgtctctt caccocatgt ctgcactttt tatgtacctg 120
 gcttcaaata ctttagtttc tacttctggt tgacctactg agaggagggc ataggaaatg 180
 aaggactgtg tgtgccctca agatggcggg gctcctgact tggagaagag gaagaggtct 240
 atgctgcacg cattggttta tacaagaagt atttggttgc agtactccta cagaacagca 300
 ctccatgccc tgtgacagtg tgcttgtgtg agctttccag tgacattcat ggtcagccat 360
 agtaaacagc ctagaaaatg agaataattaa aagangngat naaaatcttc cattaggggt 420

<210> 1740
 <211> 356
 <212> DNA
 <213> Mus musculus

<400> 1740
 ctttgggtag gtctgcggac ttgcttgggc tggacccaac gcagctcaca gatgcactga 60
 cccagagatc catgatcctc aggggagaag agatcctgac gcctctcagt gtccagcagg 120
 ccgtagatag cagagactca ttggccatgg cactttatgc tcgctgcttt gagtgggtga 180
 tcaagaagat caacagccgg atcaaaggca aagacgactt caaatccatc ggcatccttg 240
 acatcttcgg atttgaaaac ttcgagggtta accactttga gcagttcaat atcaactatg 300
 caaatgaaaa gcttcaggaa tacttcaaca aacacatttt ttcctaaaaa aaaaaa 356

<210> 1741
 <211> 404
 <212> DNA
 <213> Mus musculus

<400> 1741
 gactgaggtt tccttacaaa tttgaagtac aacagatgtt agaagaacct cagtgggaat 60
 tagtgtttga aaagacaaga tggataatcg aaaaatacag gctttctaata agcagcgtcc 120
 ccatggatag aatcttttcg cgggattccg acctaacttg tctgcagaaa cttttggagt 180
 gtctaaggaa aacactgagc aaagtagcca attgcttcat cgctgaggag ttcttgactc 240
 aaatagaaaa tctgttcctt tccaattaca aaagcaagga agagaatgga ctggcagaag 300
 aggatagtac aaaggaattg ttcattgtaat tatttttaag taagatgttc taatcttggc 360
 atgctactgt aaataattga gatttttaag caatataaaa aaaa 404

<210> 1742
 <211> 184
 <212> DNA
 <213> Mus musculus

<400> 1742
 ggccagttcc tgatcccagc agcatggcgt cttgggctga gccctctgag cctgctgccc 60
 tgcgacttcc tggggcccca ctgctggagg gctttgaggt gctcgatggg gttgatgatg 120
 cagaggagga agatgaccta agtgggctgc caccactaga ggacatggga cagcctacag 180
 tgga 184

<210> 1743
 <211> 107
 <212> DNA
 <213> Mus musculus

<400> 1743
 tgtctggatc actatacggg agatgctgcc angngcccca gacgggatca agactccaat 60

gacaaccata agattcccta aagctaagac actgccaaaa aaaaaaa

107

<210> 1744
<211> 192
<212> DNA
<213> Mus musculus

<400> 1744

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tttccagggc | ttttttgntc | caccggagan | agcaccacag | gttgcccctg | gagcactgtg | 60 |
| acccccagaa | caactgagca | cttgacctcc | ttatctctag | tgtccgtcct | gaacgaaatc | 120 |
| tacgtgagat | gccaggactt | ggaaggnggg | acttgatctn | tgaagactct | tgggacttga | 180 |
| tctcttgagg | ac | | | | | 192 |

<210> 1745
<211> 131
<212> DNA
<213> Mus musculus

<400> 1745

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| acaggatcag | aggcactacc | antgcanagc | accttcaactg | catgtctatg | ggagtggcaa | 60 |
| gggttttcc | cttacacagc | ctttaagggtg | acattataca | aataaattcc | tttactactgt | 120 |
| tacacttcaa | a | | | | | 131 |

<210> 1746
<211> 258
<212> DNA
<213> Mus musculus

<400> 1746

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| tcctcggtga | cagatncgac | gacgcaccgc | gtctcccacc | ccgcgccgcc | ncgatgcccc | 60 |
| agaggaaggt | tagcgcggat | ggagcggcca | angcggagcc | naancgccga | tcnngaggc | 120 |
| tgtngncaa | gcccgcctt | gncaagggtg | acgcgaagcc | aaaaaaggcc | tttggaaagg | 180 |
| nttaagcatn | atacnaaaaa | gngccttttt | atttgnanta | ggggtagctg | aagggtctaaa | 240 |
| cnggcttgac | gttggttt | | | | | 258 |

<210> 1747
<211> 383
<212> DNA
<213> Mus musculus

<400> 1747

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ctgggtggtg | gccaggaaa | aggaaattat | cttcttcttc | tgaggaggat | gacgttaatg | 60 |
| atgatcaagt | ctgtaaaaca | gccgcgaggg | gaccgtgtaa | ntgacnttgn | anttgttgca | 120 |
| tnaganttnn | actatnntgg | gtngggggnt | agcttaccct | agccctancc | ctaccctaac | 180 |
| cctanccagt | atgntgaatg | tgggntncaa | angttaagaa | cactggtttc | tntttcnaaa | 240 |
| gacttaggtt | catttccaac | catggntgnt | cacaaacctc | agtnactnta | ctnccnaagg | 300 |
| atctaattgnc | ttntggcttc | agtaggcact | gcaactgtat | gcntgtggta | catccatgca | 360 |
| ggttaaaaaac | tcactataaa | cct | | | | 383 |

<210> 1748
<211> 476
<212> DNA
<213> Mus musculus

<400> 1748

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| ttctttotaca | cacctgtcc | cgcgcgaggt | ggaggaccca | caagattctc | tctgatcaat | 60 |
| acctgacaca | ggatgtgctg | gaaaagnccg | atcatctgat | ggctgcagcc | aaaggctctgn | 120 |
| ttgctgatgn | tctogtnag | cgcacagggt | ttccaaatgt | aacaagggt | ccagattcct | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cacagagcca | nactggaata | aatcaagacc | ctgtcaccca | gtctatcctt | aatgaatcaa | 240 |
| tcatagagcc | tcaggctctt | aatgaagtcg | acgatgcagg | ggagcagagc | actgctcaca | 300 |
| gccagtcaga | agacagcgag | aatgaattgc | ctaactccct | cagccagcat | tctaacagga | 360 |
| gtacagagag | gtttcttcac | caactaaagg | aagagaattc | cgagttaatc | aatcaactgt | 420 |
| ggaccgatat | tcagcagaaa | atcgctaccc | agtcacaaag | aactcctcca | ggatct | 476 |

<210> 1749
 <211> 225
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1749 | | | | | | |
| tggggagcgt | ggattctttc | tncacaccct | gtcccgcgcg | gaagtggagg | acccccaaaga | 60 |
| aagangnaga | agaagaagat | agangncnac | ggagatggan | acgatgacga | atnntgaagn | 120 |
| agtggaatct | cagtcaggac | tcctcccntg | ggctccctct | tatttctgng | nttcncccc | 180 |
| ctcatcccct | ctnngttgtt | ccttctgaag | tgtcagtatc | ctctc | | 225 |

<210> 1750
 <211> 375
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1750 | | | | | | |
| gagccgtgga | ttcttctcac | acccatgtcc | cgccgcgaag | tggaggaccc | acaagtgcc | 60 |
| ccctnggggc | ctaggaggcg | gngaggagat | caaggaaaagg | ntgaanannt | ggntgtgccn | 120 |
| cngangattt | cacangacag | nntgttcttg | cgggatncac | nctaagtann | tnancctttg | 180 |
| natgcctgtg | nacaaaatga | taantaancc | caccgatcng | cttcctgntg | cattctggnn | 240 |
| ggtnttggct | tagccnntca | gggtcaccgt | gttatccaga | aatggcagcc | actggctacg | 300 |
| cgtgacgggt | caaatgtaca | tgtaagtacc | aatgaatgaa | ataaagacga | cgttcctggt | 360 |
| tcatccgggc | cacat | | | | | 375 |

<210> 1751
 <211> 134
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1751 | | | | | | |
| aactgaggtg | gggtctttca | ngagccann | agcccggcga | ggatcgcgct | tggtcgccct | 60 |
| tcaccccnng | agnggangcc | atggtgcaag | nagggtncca | gaanagatca | tacactcact | 120 |
| gcttgccctg | acaa | | | | | 134 |

<210> 1752
 <211> 314
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1752 | | | | | | |
| aactgagttc | gtcggctgac | tggatcatcc | tgaacatgga | gactctagat | ccatttatgt | 60 |
| cataccagcc | cottocattt | atgcacgaga | ggcctgatcc | tgccccttct | ctatcttgct | 120 |
| ccttctctat | catcgcttg | agatggagcc | tgaatgattt | tatttacttt | gtgggtgtcca | 180 |
| atctctacct | ccccctaccg | actggagact | ctttgaaagg | gctttattgt | acatattgct | 240 |
| tatttataac | ctagtctttc | tcattctccc | agagacatct | ataaaggttc | ttattttgct | 300 |
| caacccaaaa | aaaa | | | | | 314 |

<210> 1753
 <211> 480
 <212> DNA
 <213> Mus musculus

<400> 1753
aagggagagg accctaccgn atctacaanc cagggggcag cacgcctctg ggagaggtgt 60
ccnnatnttt tgaacgtcta nccggaggng aatactcagg ctgaaggggac ccaactcatg 120
tgcattgtgcc gtttttgcct caagctcant agcaggacct gccccgagcc cnetgctcct 180
tgccccctctg tgaggagtta cggagagggc tttgtctcta gagcagaaga gaatgatggg 240
acggcctgat gctgtcatgc tctccactgc acctgtggca gcctcctgag agccaccaag 300
atctgggatg aaggccacac cagccatgtc tgctgaaggg cccagactg agatgactcc 360
ggcctccaca gtttagatgtt tatggtgcc aaggtctata ttaaaggtag ctgtctgttg 420
ctaggcagcc cgtttgcaca aatcttgnac ataatccaa cttgaagatc aaaaaaaaaa 480

<210> 1754
<211> 122
<212> DNA
<213> Mus musculus

<400> 1754
tgaggctctg gcccgaagct tctgcctgtt ccttggtctc tatgtgggtc caaaagatgt 60
gtgtcctcca tattcaaggc tgcagacctc cagattcaga tgaccaaaaga acaagaaaaa 120
aa 122

<210> 1755
<211> 277
<212> DNA
<213> Mus musculus

<400> 1755
gactgagctg gaagtgaaac gggctccgag cagggcaggg agccctcaga cagagccagc 60
gaggaaaatg aagctcccaa tcttcatagc agatgcgttc actgcgacag ctttccgggg 120
caatcctgcc gcagtctgcc tcttgagcgc cacattgat gaagatgctc atcaggacat 180
tgcaaggga atgaacctc ctgaaaccgc tttgtccgc aaactgcaac caactgatga 240
cttcacacaa agtaaaattat acatttaaaa aaaaaaa 277

<210> 1756
<211> 107
<212> DNA
<213> Mus musculus

<400> 1756
aacgcctgtg ggccccttgt tctgacanat caaatcgngg ngnggggctg nngnacaaat 60
ctacccatct ctnttnataa attgactatg ccaataaatt aacatgg 107

<210> 1757
<211> 290
<212> DNA
<213> Mus musculus

<400> 1757
agtcaaaaaga agcctgggac atccgtgaac aacacgagtg aagcctggga catccgtgaa 60
cgacagagtg aagcctggga cattgtgaac gacagagtga agcctgggac atcgtgaacg 120
acagagtgtt tgccatacat tctgtacaa ggttctgggt ttgaaccag caacaaaagc 180
aaaacaaaac caaaaatctt ggaaaatagt gtatcgatgc aaggatttgg gggcgctact 240
gtagaaacac aaccaaccag gtgggggggg ngaatgaata aatttgactt 290

<210> 1758
<211> 488
<212> DNA
<213> Mus musculus

<400> 1758
cccaccgcat aggataaatc tcatggnatn tgttttttgt gactttgnng ttncngngnc 60
cgnaacnaat cattgtnatc agttactcca aaatttttaca gatcacgaaa gcatcgcgna 120
agaggcttac gctgagcttg gcatactctg agagccacca gatccgagtg tcccaacaag 180
actaccnact ctcccgacn ctcttccttg nnatgggttc cttcttcac atgtggaann 240
ccatcatcat caccatcctc ctcatcttga tccaaaactt ccggcaggac ctggtcacat 300
nnccatccct tttcttctng ntgggtggcct tcacgtttgc caactctgcc ctaaaacccc 360
atactgtaca acatgtccct tggtcaccaa ccnaatggga agaaaatttt ttttgctgcc 420
ttcttttttt ccagaaaaag gnanccatt ttttacaaaa cacgncntnc angccaaaat 480
aaaccttt 488

<210> 1759
<211> 371
<212> DNA
<213> Mus musculus

<400> 1759
ccttgccccg gtcttttnaga cagcacattc atcctgcntn actngtgnac gttagatgac 60
taccanancn ttncntnntg tcantgtacg ctaaantcct ntgggggngc ctggtcgggc 120
cgtctctcat ccngtcacn tgnccatggc aagattctga agggattatc ggcaaaaaaa 180
gtgtgattgc agcatctgaa ccctcntnct aattgccgcg ccttaagatt ccagcatcac 240
cagcatcacc tctcttttct tcagtgtcat tcataaaaagg ctgtnagggtg catacaccta 300
acactttctc cttattgacc cattctgagt cnatttactg aaatgtactt cngaataaac 360
aaaatgaatc c 371

<210> 1760
<211> 141
<212> DNA
<213> Mus musculus

<400> 1760
tgctacctgc tgaganactg aacctgnctt cctganaaat tncctgagata gcggncaacc 60
ngtggacttg ncgacctant gctnacagct ctgacngact acngctaaca acttatcaac 120
aaancatcaa gaagcctggg g 141

<210> 1761
<211> 117
<212> DNA
<213> Mus musculus

<400> 1761
acctcgtgtg ccacatttgc ctccagcccc tgctacagtc gctcganacg cctgcgggac 60
acacgttctn gcacaagngc ctacacaaac ttctctgcagg ngaaggattt ctgcccg 117

<210> 1762
<211> 332
<212> DNA
<213> Mus musculus

<400> 1762
gtttcctttt ttgggcaactg cntcttggtg ntgatctnac acttaaaatg ccacctagcn 60
attgcaggnc cagggggnga cccccccca gatggaggct ggggncnnnc ancgttagtc 120
aggagccttc atttctattg gcttntacta tgcatttccc aaatnccatc actgtcttnt 180
ttaaagagat agaagttata ttngtgcga ctnaccagng aantatcatg ganancatct 240
atcatgtttg gctagencat gtatgctgga ggnccatca gcantatctn ggttgaataa 300
ataccggaaa ngcnttcgag tcaataactc ta 332

<210> 1763

<211> 332
 <212> DNA
 <213> Mus musculus

<400> 1763
 cgtgcttttg agcagcccag tacatggaaa accacgcccc cctgcgcgcg cagctcacct 60
 ggcggaagtg agaggctcct cggcgcccgg naggcggagt cggctactga gagagaagat 120
 gtccgggaag ggccaggaag cnggggggatg ccagagcacc tgcaggcgct gtcccgtgt 180
 gcgcaggcgc acgccttcog gagggtcog cttgactggg gggagcagga ccggggtcag 240
 cgtccgctct gcgcgttcat acctcacaca ctaagtcttc gtttngact ctcattcatt 300
 cacatgttgc ctttcgccct caaaaaaaaa aa 332

<210> 1764
 <211> 333
 <212> DNA
 <213> Mus musculus

<400> 1764
 gactgagaaa taatgttcat atttggaccc atgtcgaact tctctgaaga aagggaacg 60
 atgattgcag ccggggattt gcaggaattt gttccttttg gccgagacca ctgcaagcac 120
 caccctaacg ctctgaacct tcagcttcgt cagctgcagc cagcctctga gttatggct 180
 tctgatggg cagctggctt ggtgggatct cttcaggagg ttacaatcca tgagaaacag 240
 aaggtttnat taanattctc atcatacttt tgaaatttag aatgaatacc gtgctaatat 300
 aaagctgcct atatgcatgt gagaaaaaaaa aaa 333

<210> 1765
 <211> 161
 <212> DNA
 <213> Mus musculus

<400> 1765
 gagcgtggat tcttctcaca cccatgtccc gccgcgagtg gaggaccac aaggctctcc 60
 ttggacattc ctgtactctt tgtaggctcc acatcaggt gcaactcaga actattgtga 120
 acttcaagaa ataggaagat ccaagtgaga cccacaaagg g 161

<210> 1766
 <211> 454
 <212> DNA
 <213> Mus musculus

<400> 1766
 ggccttatca tttctgttgn gnctcnctgn nctccttnn acattcccag ctnagatccc 60
 acccctgtag tcttctgcaa cagctgtgtg ccggctcgaa agcgtggac atcgggtgac 120
 ctgtggtgtg gagctggcca attagcctcc cctcgccggg tgaggatttc cacggtattg 180
 gtccagaagt gtcagtgccg cccgaagctg tgagctgagc atcctagagg aatgcgcagg 240
 acatgaatga accttggcaa gaagcaggag acgcaataga aagacgtgac ctgaatgatg 300
 tgcacgggt caagagagca gaattggaca gggccagaat actagacatg gtccccagt 360
 catgggttta agaccactaa tagtcataga atgtggggct aggtataac tcagtgggag 420
 aagggtttg cctagcatgc atgaagccct gggg 454

<210> 1767
 <211> 445
 <212> DNA
 <213> Mus musculus

<400> 1767
 gagcgtgga ttcttctcac acccatgtcc gcccgngaag tggaggaccc acaagntgca 60
 caggangcct tnnnggcttn gntggtntct gncgcgatgt ngnatatnta tactggacac 120

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| agagacntac | atatcntcag | annntngttc | tnananagct | acntgttnat | ntatnacttg | 180 |
| attnnngannn | cntgggctca | aagggacaca | ncntcccttg | gttttactct | ggaagactnc | 240 |
| ggaagattcn | acngatgtcn | gtccncagaa | gatttgacca | ccnngccatg | ctgctntgaa | 300 |
| tgctacaagg | gataaagtcc | aaagccaaag | aggctagagg | gccaagtctg | cntaaaaatcc | 360 |
| tanatgaagc | actggggggcc | gtggtoctg | agaggagtca | ggtggnggct | gaggacatcc | 420 |
| ggcttgagga | gaccctgtca | gagcg | | | | 445 |

<210> 1768
 <211> 330
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1768 | | | | | | |
| cgtggattct | tctcacaccc | atgtcccgcc | gcgaagtgga | ggaccacaaa | gggtctgctt | 60 |
| agttggactt | cccaagactg | tgtgtggagc | tggagattta | atcaaaaggc | cttaagatga | 120 |
| gtgccttgct | agagcacaaa | cattccgcag | tcccaaggaa | aatacaattt | aatgcatcca | 180 |
| gttaaattgc | ctgagaggaa | atagtgaata | cagctttctt | caagtctttc | cccctcaggc | 240 |
| cattcactaa | gaaactggct | accaactgct | ggttttcttac | cctgttttct | cacctaaaga | 300 |
| atgctaata | gcttgagctc | gagtcctcaa | | | | 330 |

<210> 1769
 <211> 311
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1769 | | | | | | |
| ttcttctcac | acccatgtcc | cgccgtgaag | tggaggaccc | acaagaggng | caactggtag | 60 |
| ctgggtngga | ggcccggcan | cangngacct | taacaccttg | acnctgnagg | tggcccagnn | 120 |
| naancntggg | attgtanath | agggtgctga | ccancatctg | ctncctctac | cagntggaga | 180 |
| actactgttn | tagacccanc | antaccngc | ctacccctct | gccttgaata | aaacntttga | 240 |
| atgagcagaa | angaananta | taacggggct | acngtcctta | ccantnctga | gtaccctgcc | 300 |
| gctgtactgc | t | | | | | 311 |

<210> 1770
 <211> 134
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1770 | | | | | | |
| acttactata | acccatggna | gggtgccgtg | tgtgctgctg | cgggctntga | gtgntgcan | 60 |
| gnagacnnag | ngctctcttt | tgccgttttt | aaagngaaac | atctgatcag | cgctcagatc | 120 |
| accatctacc | actg | | | | | 134 |

<210> 1771
 <211> 279
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|-----|
| <400> 1771 | | | | | | |
| tgagagatgg | cctcagaagt | cgagggaaca | aatccctgtg | cgtgaggagt | tctttctctg | 60 |
| tgggtggagtt | gaaaccaaga | tcataaaatg | tgggcccctg | actaacctct | ttgagaaaaca | 120 |
| agacgtcagc | aagccaaaac | agcttatctt | catcattccc | ggtaagtcga | aaagtcacag | 180 |
| gttctcaaaa | cctctgggtc | cagagtgaact | gccggtaaac | tggagaatca | caaataaaat | 240 |
| taccactacg | aatgatgggc | acggttacta | aaaaaaaa | | | 279 |

<210> 1772
 <211> 239
 <212> DNA

<213> Mus musculus

<400> 1772

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgaggag | acctctgaan | agggntacag | acacagtctt | tgagaacttc | tgctgaacct | 60 |
| atggaggatg | gatgtccna | ggaagagaag | cgggggctca | ttgtcccttc | catctactct | 120 |
| gccctttgca | tctctcctac | ccaacccttc | gtctgcatgc | ctcagtaact | ctcaggcctg | 180 |
| aggacctgag | tcagtttcca | ggctcatgta | aggctttggc | ttcaataaaa | caaaataaaa | 239 |

<210> 1773

<211> 470

<212> DNA

<213> Mus musculus

<400> 1773

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gggagtgtat | ggggctccnt | acccaaggga | aggagacggc | tggggctcan | gaagtgaatg | 60 |
| aggatgagaa | cacaagcaca | gaggagcctg | tggatcagg | angcccatca | cncggacncc | 120 |
| anggagcctt | attatgggca | tagntctgng | ctaangnctg | ngctccnng | cacagtcttn | 180 |
| ntggcggntn | ancgagannt | anatctgaan | gcctggcttc | ctgtttccct | tgtgaggcgt | 240 |
| tcanatatnc | agtantctnc | tttcttggtt | ggggacctnt | ggcagnccat | gcaanttgng | 300 |
| cacacacata | gctatgtatg | tctccaaaca | tccaccagag | ggcaggngat | acagttnaag | 360 |
| aggccttgte | tgcacaacac | cngcctggnc | ctgaagctgt | agccccaacc | tccgcccattg | 420 |
| ctcctccatc | ttaagagctg | ggagctncag | atacaactg | ggggacaact | | 470 |

<210> 1774

<211> 170

<212> DNA

<213> Mus musculus

<400> 1774

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| gactgagggtc | ccccgtctca | gccagatctg | ctcaccagtg | aatcaactaa | gaaccctgga | 60 |
| tggtgaagag | agaggagact | atagtaaaga | atccagggtat | gttagaggaa | ctgaacaagg | 120 |
| ggtgagggtgg | cccttaagtg | acaataaaaa | gagaatgtga | aaaaaaaaaa | | 170 |

<210> 1775

<211> 329

<212> DNA

<213> Mus musculus

<400> 1775

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gactgaggag | aactatgato | agatgaaagc | tttagtgagt | caacttcatg | agcgagccca | 60 |
| gtatgtgaga | ctaggaggga | gtganaaggn | ccgggcgcgg | ctcacatnct | aaggaaanct | 120 |
| gntccncaca | gacanaatcg | actntctnat | anaccaggn | tgggtctagc | gctttgtacc | 180 |
| tcagcgtgtc | ttctgtncoc | ctggacagtc | cnattaacaa | atgcttntaa | ntttgggntt | 240 |
| cttaaaaaaa | aaagtgaact | gatgaattgc | acataagagc | acaataaaa | tggccataag | 300 |
| ggaaatgagt | tttttcagca | caaaaaaaa | | | | 329 |

<210> 1776

<211> 188

<212> DNA

<213> Mus musculus

<400> 1776

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgagagcct | ctctcttctg | acgacatgcc | cagctgtatc | acaggaggag | agtgttaagt | 60 |
| cacnaacggc | gatctccatg | acgacggagg | ggagcggcta | ccaaaatgac | cttccaaagg | 120 |
| acggccaact | ctgaatgctg | tgatacagtg | gtaacatggg | aaaataaagt | ctagctatta | 180 |
| ggaatgaa | | | | | | 188 |

<210> 1777

<211> 358
 <212> DNA
 <213> Mus musculus

<400> 1777
 tgtgttcctt ccaggntgac aaaacaacat tggggctctg gtcaatatga tgaggtcacc 60
 cgccacacaa gagaaaggaa ancggtcnac gnggncctat gcaggtagtc cacatgctag 120
 gaacacctga ggcttccttt tcagggatgt gccacanact agnggnaaag atttcttgna 180
 ctaattgctc naagaaaagc actcacagaa aagtaaattt accccttcct taaaaggttt 240
 catcacttcn tattttatttt agagacaaat acaaattctt caaggatctt tcttgagcan 300
 agagatatatt ctctnctcat ttttaactctt aatcctttgg gactaggtta aagcatag 358

<210> 1778
 <211> 579
 <212> DNA
 <213> Mus musculus

<400> 1778
 cacactttta cacttttacag actatnagaa nagntagagg ggogaagtct aaaaatgaaa 60
 ctgctcttga ccttctgcag gctgcttagc aggttaaaca gattttctgt aaaagcaagc 120
 cctcctgtga gtttctccac ttctctttat ttgtgtagcc agaagaagaa aaactcttac 180
 gaagcagtag accaagcgaa gtactctcgt ttagtaacct ctgtcttgte cagaggcccg 240
 gacnngactn cnnagnctgt gtncnaggnn natgatggct gtatggacca gtgagtaagc 300
 ataaggctgc agancccgag ccacaggccg gagtcccaca aactgcttt cctatcttca 360
 atgaagagag aaccgggaaa ccacacacag atgcttcttc aagccctttg aagatccctt 420
 tgcaaaggaa ctcgataccc agtgtgaccc gcatccttca gcagaccatg ccacctgaac 480
 agagcttctt tttggagagg tggaaagagc ggatggttct ggagctggga gaagacgggt 540
 ttgcagaata tactttcaag taattatctt gcttctggg 579

<210> 1779
 <211> 397
 <212> DNA
 <213> Mus musculus

<400> 1779
 actgagtgac ccattggagag tggttaatggc tatttaatga agtacaccaa ccttgctacc 60
 ggggtggcagt acagggnntt tggttttaaac aatgaagctg ggctgttgga gtactttgta 120
 aatgaacagt ctanaaatca gaaacccaga gggactttgc agcttgccgg gggccgtgat 180
 ctctcccagc cgatgangac tcgcacacct tcacagtga tgcgcncagc ggggagcagt 240
 ataaactcag gagccacaga tgctagaaga gcgggcagca ttgggaaatg taaacactga 300
 agaaagagta ttgaactaaa aaagcagcaa tctgcattca ggggnaaaaa attgggtttt 360
 tttatgaggg nantttttatt ggggggttga aagaaat 397

<210> 1780
 <211> 629
 <212> DNA
 <213> Mus musculus

<400> 1780
 gatgacttga aagtaggggt gtcttcacca ggctaaaaga agtaatgat cataacaggg 60
 tgcactgtgg ttctagatct gaatgagatc gcgttcacat ggacttcagg tttctgacaa 120
 cactgttttg agtaatgtat atatgggtct tgtaatgtag aggtacttca gttcagatgg 180
 ggaaagttag gtttgcttta gaggattgca gaactgtgat gtaattccag agaattgctt 240
 tcaagtccag ctacgctttg gcagatgagg cagttagaga gctcaccat ggccactgag 300
 ctgcatactc agctataatt tttagaggga ctagatgggt tctgtggact acatgtggcc 360
 ggctacttgc taattaaaaa gggatttcag acatctatgt ggatggtagc catcttagga 420
 cagcttagaa tgttttaggat attgcttttt aaaagcaaag ttttatataa aggttcctat 480
 aatggcccag atagtaatat taatactgct ttggnntgca ctatgttgct tttngtgtaa 540

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aaatagtga | ctttgggtt | tttgggtcat | caaataaatg | actttggtat | attncaataa | 600 |
| aacctactgg | ttaaccttaa | aaaaaaaa | | | | 629 |

<210> 1781
 <211> 442
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1781 | | | | | | |
| tgaggtcctg | agccccatct | cttgtagca | caaataaatg | gaatcaacag | acgacacag | 60 |
| acattgtaag | atgctgtgga | aagtgtaggc | tgttcagaaa | accacctagc | agctcccaa | 120 |
| aggttcaaca | acaacgacag | aaggaagagc | cacataaacc | agggacttgg | acctccagca | 180 |
| ctcanaaacc | ggcctagacc | caaggtctct | tggataaggt | ccaggtaaac | tgcccgagg | 240 |
| acacttctgt | tctccggaag | ctttcgatgg | aggcctcagg | aaaaagcaga | caagaaaacg | 300 |
| ctagcggctg | gcaacaaagg | ctatntnant | nccaactatn | ggaatgttct | actgnatnac | 360 |
| ttngnacnng | ngtctttcan | atttgngcga | agagnntgt | tctntttnt | ctnccttgaa | 420 |
| gacatacctg | ccccatgcat | aa | | | | 442 |

<210> 1782
 <211> 496
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 1782 | | | | | | |
| aactgagcct | gtgggccctg | gnagtacgta | tttgatattg | gatgcgaaca | gcacggtgaa | 60 |
| tatgcctca | cagatacgga | aagaggagaa | ctaggaggag | gaggaanaga | cattagtga | 120 |
| catngttccn | aaanggaaag | ntctcaacat | cacagaattg | gccctgngga | ctccaaccct | 180 |
| ctccgaggag | cagcctcccc | ctgngggcca | aggccaggag | gaaccgcagg | gacttactgg | 240 |
| cgtgggtgac | ccctnanaag | acatccaggc | agaaggtttt | gagggcgagc | tgagggcgag | 300 |
| ggggggccgat | gaagacgtag | acacgttcan | gcaggagagc | caggagaaca | gctacganat | 360 |
| agaccaggga | aacttgaact | ttgatgaaga | accgtcagac | ctccangatt | aagatagtgg | 420 |
| nggcagaaga | ccananacac | accaggcgctg | ccttanttaa | caccagtcag | ctagggctgg | 480 |
| tatccaccac | ctgatg | | | | | 496 |

<210> 1783
 <211> 610
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1783 | | | | | | |
| gaaagggcat | tgatcccnt | gnagctggag | tgacaggaag | ttgaagatnc | aggctattac | 60 |
| ggaccaccag | ctgtggattn | tggcaccaaa | ctcaggtcct | tggaagaac | agaaatgttc | 120 |
| ttaaagactg | ggccatctct | gcagccctgg | gttgttttgt | gtctgtgaag | caagcatccg | 180 |
| accgaccgag | ctccatcctn | agnacacctn | acgtctcttc | ctcctctcag | cctcctgagc | 240 |
| gcctgagttg | cttccatgtg | ctggctgcaa | caacgctgat | aaaaaatgag | aaaggaaaat | 300 |
| nanggcngga | gnnctgtttc | ccccttttta | ttattttacc | ttgtgtgata | caaggccttg | 360 |
| gaagcaggac | ctcactacta | gctactcaac | ccactgagaa | ccatcccaag | tcttcctttt | 420 |
| actctttgtt | tcttcagata | ggagctcact | aagttgccta | ggactggcct | ttaattaatt | 480 |
| ttatagccaa | acaagccgng | actttacaat | ccttcagctt | ngnctccca | gtaactctat | 540 |
| tagagccctg | caccatcaga | cccagccttn | ctgnctcttt | ttggntaaag | gctgcaagta | 600 |
| aaaattgctg | | | | | | 610 |

<210> 1784
 <211> 260
 <212> DNA
 <213> Mus musculus

<400> 1784

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgaaatgcct | gagatctgcc | cctgccgaga | tctgaactgt | cttcctgaga | gattcctgaa | 60 |
| taaactgcca | gcctggcagc | ctggaatgac | tccaggcacc | aagagtggaa | ctggcgactt | 120 |
| actgctaacg | gctctggcgg | actagtgcta | acaatgtggc | aacaaaacat | caagaancct | 180 |
| ggcatggcag | gggatgggct | tcccccttt | ataacacaga | ctgctantaa | acattgacct | 240 |
| tgaacaggga | aaaaaaaaaa | | | | | 260 |

<210> 1785
 <211> 555
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 1785 | | | | | | |
| gtctgggtgca | tggagaagan | tttgagccct | cgttctgttt | ttacaccggc | tacaaaatcc | 60 |
| ccatatgcaa | aaccctggac | cagtattttg | agttcatcca | gtctctgcca | tccctcgata | 120 |
| accagaagt | ctttgggctt | cacccaatg | cgcacatcac | gtatcngagt | aacacagctt | 180 |
| ccgacgttct | tgaaaccatc | accaacattc | aaccgaaana | aanccggtgg | ggtgtgggcg | 240 |
| agacgcgcga | ggccattgtc | tacaggctgt | ctgaggacat | gctcancaag | ctgccccctn | 300 |
| actatgtgcc | tcattgaggtg | aaagctcgct | tgatgaaaat | gggtcncctg | aactcaanga | 360 |
| acatatctct | tagacaggaa | attgacagga | tgcagaaagt | ctctcaatcc | tccgcagcag | 420 |
| cctgagtgcg | ctaaaactgg | ctatcgaagg | gacgatcatc | tnagtgaga | aattgaaaaa | 480 |
| tcnttgggag | gggatgtttg | atgcncgtnt | cctcngcttt | gggaaaaaag | gtgttcctgg | 540 |
| ggaatcccc | cccc | | | | | 555 |

<210> 1786
 <211> 429
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1786 | | | | | | |
| aagcagctcg | gcaatgatgt | catctcccag | gatacctcca | gcccagtctc | gtgcaacaca | 60 |
| gagcgttttag | aaggaggggc | gacagtgcct | aaactgcaac | caggtcttcc | agaggcccg | 120 |
| tttggttcgg | gaacaccaga | aaagaatgcc | aaagctgaac | ccagagtggg | tggaggctgc | 180 |
| aggtcccggg | gctcctccag | catgcccacc | agcccaaaag | ccctccttca | gtccoctaag | 240 |
| cccagccctt | cagcccgcc | ttctatccct | cagaagccaa | gaactgcctc | ccgacctgaa | 300 |
| gacaccccag | actctccatc | tggtcctagt | tcccctaaag | ttgcccctct | tnaccccatn | 360 |
| cttaaaaaan | gcttcttcgg | acaaggagcg | tgacggccag | aacagctcac | agtccagtc | 420 |
| taggagctt | | | | | | 429 |

<210> 1787
 <211> 276
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1787 | | | | | | |
| tgtaggaaac | aatagtthta | atgatattat | ggaagcaaat | ttaccagcc | cttcacccaaa | 60 |
| gcccacccct | tcaagtgata | tgaccgtgcg | taaagagtnc | atcactgcaa | agnatgtcga | 120 |
| ccaccgcttc | tccaggaaga | cctgtgcctc | ttcctcagca | aagctgaacg | aattgcttga | 180 |
| ggccatcaag | tccagggact | tacttgcat | aatccaagtc | tatgcagagg | gggtggagtt | 240 |
| aatggagcca | ctgctggaac | ctgggcagga | gctcgg | | | 276 |

<210> 1788
 <211> 432
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1788 | | | | | | |
| aaggtttcct | cccagagtcc | tctgattcat | gcaggaaaaa | atctgaggca | ccatggaccg | 60 |
| tccattcaac | tgaatgctta | cgggtgactg | ccctagagcc | atgtgccctt | gacagggttc | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| acagtacaaa | agacaacgtg | gtttttcatc | agggaccaaa | caactacacg | cgcccagtg | 180 |
| cacctgatac | tgtccactgc | accgccatca | caatgaattt | tccagaaact | aatacaaaaa | 240 |
| attgcttctt | tanacactnt | ntttngtctt | aacctcaata | accgtcggga | gatggcaaat | 300 |
| taacgcaatc | caatttttaa | atgatgccgg | ggcacatgg | cttcatccac | caggaagcac | 360 |
| atctggatct | ccatcactac | tagcgaatca | ccagaataaa | ttctcggttc | cttcggcgcc | 420 |
| gtgcgcgaca | ca | | | | | 432 |

<210> 1789
 <211> 192
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1789 | | | | | | |
| gactgagctt | tcagtccctg | gagatgttga | agcnttttatg | atggtgcatg | gccaaactta | 60 |
| agctatgcac | ctgaagccat | agtttcttcc | tcaccanaag | tgatggttca | gtcgtgaggc | 120 |
| agccctccag | caagacattg | taaaagtgtt | tcaattgttt | aataaaaagg | caagtatctg | 180 |
| gaaaaaaaaa | aa | | | | | 192 |

<210> 1790
 <211> 437
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| <400> 1790 | | | | | | |
| gacgtacaga | aggggctaca | ggaccgaggc | cagattcaga | gccagagcca | gcgggcagtt | 60 |
| ttcttgaatg | cggtccaggc | tgtgtttcag | gaagggccct | gcgtctatgc | agcgtctgac | 120 |
| ctgaggaagg | ctggaaggc | ttcaggatac | taagtcagct | ctgccagag | ctgggatctg | 180 |
| gcccactacg | aatgctgtga | ctcacatggg | tgatgctgta | tgccctaagca | ctccaggacc | 240 |
| tggatccctt | gctgtgaggt | caacctggga | ctgaaaaaga | acaaggatca | gctcagcagg | 300 |
| atgaatgact | ggagagagaa | ggactgactt | gtccttgatc | ccatcccaac | acctcctgtg | 360 |
| gcccctgcctt | ggttcttcta | gccttgccctt | ggcctcatgc | ccacctctct | aaatggtgta | 420 |
| cctgccagtc | caagatt | | | | | 437 |

<210> 1791
 <211> 318
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1791 | | | | | | |
| catgagtctg | cactagtctg | tatgtggcat | ttncaanaca | gcagatgcna | gcaaggcagg | 60 |
| cacataaaga | ctcnggagag | actnaggcat | caggcnccac | ctccccctnga | ggaactgata | 120 |
| aacatccana | nnanncnatc | tnnctntctn | ccacctctn | anagcctgaa | tntgagcctg | 180 |
| tggntgcttc | aggccctatg | catagagctc | ggctggtgaa | ntccaagagg | aanaagccca | 240 |
| ggggactctt | cagnnaactc | tccatgtctc | anccaccacn | aagagagcaa | aaccgcttnc | 300 |
| tagcateacc | tgaagga | | | | | 318 |

<210> 1792
 <211> 330
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1792 | | | | | | |
| tgcacggaca | gaggcttctt | nacctgcccc | ttntgtgcct | acttttagagc | cancatcata | 60 |
| tgcanactct | ncaccggcgc | cagagacccc | agcanaagaa | gatactgaaa | atatggttcc | 120 |
| tgattgcata | tgattgnact | tttaattcta | taccaggggg | atacagggga | tataaaactg | 180 |
| gtaaatataa | atctatatgt | atcattgcct | accagaatgc | aatttgacca | attgtataac | 240 |
| ttttncatga | gtcatantgc | tntntctcat | tgtatgctaa | ctnccttatg | taatgtnacc | 300 |
| aatngcttgc | tcacagatct | tgacataatg | | | | 330 |

<210> 1793
 <211> 441
 <212> DNA
 <213> Mus musculus

<400> 1793
 ggctgcaggt gatgtgagcc aggagccaaa gagaagatca cgcccgactg tctgctatgc 60
 ctgtgccctt tacaccggag ttgaaaccta aaagagcatc aacttcaagg aaaaccaaga 120
 ccacaaatgt cgtggaagaa aacaaagatg caagtaccat accaattcct gaaaccaagc 180
 cagaagatgt taaagacgaa tgcaacatgg aaaatgctga aaatggagaa gccaagatta 240
 tggaggcacc cattcctaaa atggaagctg aggaagtata agaacagata aatgaagaca 300
 ctgaagaaga tggaggagaa aagaaagaag cagtggcagc agaagccaaa gatgatgagc 360
 taaaagcaaa cattcaagat gtggagaaa atgaagatgg aaaaagagca caaagataca 420
 ggtgaggagg tggagagcgg a 441

<210> 1794
 <211> 125
 <212> DNA
 <213> Mus musculus

<400> 1794
 ggccctcagga ctccctttgt ctgtcactct cangatccca gccctggctc cccaaagtac 60
 ctctacaccc tccagctttg ccttgacaaa gaaatagggg gtccaaagca agtcaaaaaa 120
 aaaaa 125

<210> 1795
 <211> 176
 <212> DNA
 <213> Mus musculus

<400> 1795
 cagggcaaac gaggaccaca tggcagaaa gagaactgaa gaatccaaag cccagtgta 60
 cacacatctc ttctgactnt tccagcaaa acgggcctgt ttttccacta tgcccgatc 120
 agaacngang gtcatnaggg tcanttccaa cccactttcc tcatgtgcac cctgcc 176

<210> 1796
 <211> 329
 <212> DNA
 <213> Mus musculus

<400> 1796
 acactctact ctgatacttc caatttgagg ttcttgcctga actctttgga tcttggacat 60
 cngaagtgcc ncacgatatt tgttttgctg gaaagaacat atgtagaagn gtgactcgtt 120
 atnagacctn acctctctgn acattccata gtgggttttc tatnactata atgnacgta 180
 tnngnatca atcgagcgca tggcatttgt gaaaagaatt tctnaacct taanctgtga 240
 acattcttat tggaaanacg gcntnccaaa cntatganct ntgngcagnt cactgttctt 300
 gnggggttccc nagaaattgg agtgggtctg 329

<210> 1797
 <211> 393
 <212> DNA
 <213> Mus musculus

<400> 1797
 ctctgtctgg ttctgactg tccgtccatc tttggttcca cgatgcctgt gctggagaag 60
 tagatgcagt ctgtgtccag tccacgtgaa ctagcagccc actctgcact ggccagtaaa 120
 ccatgcccaa gacaccatgg accacgaacc taatgcgctt gtttcaaccc tacatgagga 180
 ccctgtctag gggaggctgg gttctccagc aagaaggcgg atcctccaca ccagcccttg 240

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| tgagctacat | gaggagggag | ggcagacagc | aggaacttcc | ttgaggctgg | aaatggagcc | 300 |
| taacaaatga | gagatttcag | cagtgagaag | cctaattaag | ccacctgggt | ctttttggccc | 360 |
| accctaccc | cagtcattc | tgcccgtagg | ccc | | | 393 |

<210> 1798
 <211> 208
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1798 | | | | | | |
| tactggtca | cctgctgact | tacactcage | tgnacagccc | aagactgcgt | acctagtaga | 60 |
| tggtactgcc | cacggtggac | agctgccctc | ctacctcaac | taacaattaa | gacagtagcc | 120 |
| tcatggagat | gcccattgtc | tatttanngc | aggtctccca | ttgagggtcc | atctttcagg | 180 |
| tgacctctag | ggtctgttag | agtgccta | | | | 208 |

<210> 1799
 <211> 150
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1799 | | | | | | |
| tttttgaagc | cggaagggtt | ggggggatcc | ntttgttttg | ggtccatccg | ttcaagggtg | 60 |
| ggcttcccg | taaaactttt | cacgttngac | atcttctctc | tcgggcgggt | gggggaccac | 120 |
| cggctngcct | nttnttcgga | aaaaaaaaaa | | | | 150 |

<210> 1800
 <211> 133
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1800 | | | | | | |
| gagggtcct | gcaccaggaa | agaacaatca | gaggtaaatg | atgtgaggag | gtggatggag | 60 |
| gtacccaaca | cctgtcagtc | tccttaatac | gcctgtatct | atattaaaga | ccactccctg | 120 |
| ctaaaaaaaa | aaa | | | | | 133 |

<210> 1801
 <211> 229
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1801 | | | | | | |
| actgaaaaag | gaaagaacaa | gaagaggaag | aggaggagga | ggaggaagaa | aagctgcact | 60 |
| tttcttccca | gcactgcaaa | ggcagaggca | gaaggatcct | gagttcaagg | ccagtttagg | 120 |
| ctacataaaa | agttatganc | tactctggnt | tacggagtaa | gananactna | gncctccant | 180 |
| atcctatccc | ccccaaaaaa | gcaggagcaa | attctgatca | aaaaaaaaaa | | 229 |

<210> 1802
 <211> 187
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 1802 | | | | | | |
| cgaaaaatcag | atatccagag | atcagaaaaat | gataacatct | gaggatcggg | tccaagaagg | 60 |
| gaaaaaagtt | gtgaaactca | aaacagaagt | ggctgataaa | gaaaatattg | aaagtacagn | 120 |
| tganaaaaaac | tgcattccat | tgnnagctgg | agaagtancc | agctcagaaa | tacataattc | 180 |
| aaaggat | | | | | | 187 |

<210> 1803

<211> 164
 <212> DNA
 <213> Mus musculus

<400> 1803
 actgagagag gatggctgcc tttggcgagg ttagaagcac cgcttgggaag cccatcgctc 60
 gggaggtaga gttaggagtt caaggctcatc ctttgccaca cagtgattct gaggccacct 120
 tgagctacgt gggaccctgt ctcagaataa gaccaaaaaa aaaa 164

<210> 1804
 <211> 252
 <212> DNA
 <213> Mus musculus

<400> 1804
 aggcccgctg aaattagtag ccnaaaagaa ggactcaggn tntcantnctg gncttcaaaa 60
 aacaagcntn tggggaactg gagctggagg gagctaagct ggctggagat gatttgcatt 120
 taaagagaaa gtagccctct ttggattccc tgggagcggg gccggaggag agtacttccg 180
 ttgatttaac agttcccctt tcctacctcc cacaagaact aaaggagcac tgttagttac 240
 cgggaaaaaa aa 252

<210> 1805
 <211> 252
 <212> DNA
 <213> Mus musculus

<400> 1805
 ccctcgctaa cctgagtgat tctgnaacta cacaagctgc atttgggaga aggagaagtg 60
 tctgggaagg ggccccgaac agaggaagaa naacagacgg anaccacggg gaactgggaa 120
 ggagcaagtg cggaggcnat cctgaagctg ctgaggaagg aanatgggtg ngctnncctc 180
 aagctctttt gctgcataa tgcnccgaaa atatgagagg atcctgaaag aattctctgg 240
 cagagagcac at 252

<210> 1806
 <211> 298
 <212> DNA
 <213> Mus musculus

<400> 1806
 gttccaggct ggtcacgggc agcttccctc antngatgaa ctatgatatt gttgntacct 60
 gaaagaaacc ctctnctccc taagttgttt tttggctcann tacgctggna tagtttgatt 120
 gtcaaccgtg angccgagct ggagtcattg gagaagtgg aaccccnagt nagaaaaatg 180
 tctccattan tatcntngct aagggttgan cnagccttng nggagcaant actngtnann 240
 nntcaagtaa nctcccctcc gtgncctctg taacatnctt ccctgggttt caaatctt 298

<210> 1807
 <211> 230
 <212> DNA
 <213> Mus musculus

<400> 1807
 gagtcagacc ctggaagcaa ttgaagacat gcatgagaag tccatggagg gtttgatgaa 60
 catggagacc aacaactacg atatgctttt tgatgtagat agtgaagaga cattatgaag 120
 catactctga agtactcttc tcctttccca tcttcagact aatgaagcat acatatttct 180
 cacttgctgg tacattgtaa ccaaataaaa aattcactaa caaaaaaaaaa 230

<210> 1808
 <211> 446

<212> DNA

<213> Mus musculus

<400> 1808

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| agggaacttt | caggagcctg | gccgccgcgg | gagaaagctt | gtcgtggtgg | acttctctgc | 60 |
| tacgtggtgt | ggacttgcaa | aatgatcaag | cccttcttcc | attccctctg | tgacaagtat | 120 |
| tccaatgtgg | tgttccttga | agtggatgtg | gatgactgcc | aggatgttgc | tgacagactgt | 180 |
| gaagtcaaat | gcattgccgac | cttccagttt | tataaaaagg | gtcaaaaagg | gggggagttc | 240 |
| tccggtgcta | acaaggaaaa | gcttgaagcc | tctattactg | aatatgccta | atcatgctct | 300 |
| gaaaagtgtg | accagctacc | agctgtttta | aacctgtacc | ttttttaatt | tgcaaaaaaac | 360 |
| tatgaagtgt | ggagagtcta | tacccaactg | ccatctgatt | ataaatgaca | ataaaatatt | 420 |
| aattctaccc | tttttaaaaa | aaaaaa | | | | 446 |

<210> 1809

<211> 193

<212> DNA

<213> Mus musculus

<400> 1809

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgagtgtaca | ttttggaacg | ggaaaggaag | acgaacacgg | atgccgggtg | tcaggcagtc | 60 |
| ctggccgcgt | gctgggctgc | gctctgctgt | tgctgcctcc | tgacagctt | ggactgagta | 120 |
| gccaaagacc | agttctctcg | cagccgctgc | tcctgttgct | gaataaacia | ctagtgttac | 180 |
| acaagaaaa | aaa | | | | | 193 |

<210> 1810

<211> 278

<212> DNA

<213> Mus musculus

<400> 1810

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| agccaatccc | agacctgctg | taccaccgat | gtggaaaggc | atttaacctt | gctacacact | 60 |
| cccctgcttc | ctgactagct | tggttggccc | actccctcac | ccacctcctt | ttccctccat | 120 |
| atgaagctgg | gaggggtgga | attaccacag | aaggagatca | cccagagatg | cttgtcagac | 180 |
| actcaggcaa | atctaaccgc | agctccctaa | gggagacagc | acccgagctt | gaaggatccc | 240 |
| ttaaccacaga | gctcaatggc | aagcacgggg | ggggggggc | | | 278 |

<210> 1811

<211> 328

<212> DNA

<213> Mus musculus

<400> 1811

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| actgagccc | ggtcttgcat | gcagctgagc | ctgctgnccg | cagttntntg | gaaacgtgtg | 60 |
| agcgngggct | gaagccccac | cacctgctgg | accctcagna | tgaaggaanc | cctggngctgg | 120 |
| atcatggttc | accagaatgg | agtgcacaga | ggcttccagt | cgctcttctc | catctcccag | 180 |
| gcaggaggac | agatgcaggc | aagctaccac | tgggccaggg | acctggctcc | cagacgcccc | 240 |
| ctgctggacg | tctctctggc | ccctacttctg | gattcctgcc | cctaccgcag | gcgtgagcag | 300 |
| gtactgcgtg | agatgccagg | acttgga | | | | 328 |

<210> 1812

<211> 321

<212> DNA

<213> Mus musculus

<400> 1812

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcgagggaga | tgagaactca | cctaccatct | gaaagtctta | aggtttgctg | acagacaaaa | 60 |
| ccgggctttg | aatggagcgt | gaactcctga | ggcgagcatt | ggcccgagag | agccgaggat | 120 |
| gcagggtgtg | gtctgatctt | gatttcagg | acttttgga | tacagaatac | cagatgtgtt | 180 |

| | |
|---|-----|
| cctgctgccc agccccacaa ggctatgcag aatgcaaaga agagttactt tttggctggg | 240 |
| gagtagtggg atcatgtgca ctattgctgg aaataataaa tattggccta tctgtagaaa | 300 |
| taaaaatctg actaatgata a | 321 |

<210> 1813
 <211> 285
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1813 | |
| gocacacatg agtcaccgtc catgctgccg tgtgggctcc tgcctctgga ctttggctca | 60 |
| ttttccatgc ctgagctagt ctgtaccaga tgctggcagt ggggcatggc agagctcggg | 120 |
| agagctgaat tgattgccca acccttcacc tgtgccatct cttgacaatt gttactggaa | 180 |
| agcctgccct gtcacacctg ctttcagttc ttgtggctct tggatgaaag ttctgctatc | 240 |
| ttgtgccccca cccattaaa ggactgcctc ccaccaaaaa aaaaa | 285 |

<210> 1814
 <211> 412
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1814 | |
| gatcccgga accccaaacc acaaaggga aagacagaag ccgctgacct accagctgag | 60 |
| agtccgacct ccacctccga cccctgaggc tgagcaagac gaggctgagc agaagctggc | 120 |
| ctaacacaca cctcagccat catctgattt agtgatctaa gaagagattc ctcaaagaga | 180 |
| agcggattcc tcaaagctgt cctttaagtg tcacacacac tgaggatagc tgttgagaag | 240 |
| gctgatctga ctccatgaca ggcttcacac tggcagttca ggagacaagg cctaactctg | 300 |
| tttccaagaa ctgagcaagt ccaggcaagt cccaggcctc agaagctgcc ctggcctgag | 360 |
| gcaaggacaa cgggtcagca gcagtttcca gacttcccag aaacagtttt cc | 412 |

<210> 1815
 <211> 185
 <212> DNA
 <213> Mus musculus

| | |
|---|-----|
| <400> 1815 | |
| gggaccaaatt tcaacttga aactccttca ggggaaactc tgccatcatt caaggaggaa | 60 |
| aatggcaatt ttcacaggat tcagnatctt tctcgtcttc ctttaccttt tacattaaca | 120 |
| tcacagttaa ttttgtgttt tgattcttaa aggaataaag ntaatggaaa tggcaaaaaa | 180 |
| aaaaa | 185 |

<210> 1816
 <211> 322
 <212> DNA
 <213> Mus musculus

| | |
|--|-----|
| <400> 1816 | |
| agctgcagac aggaggagca gcgacgggc accagntct acgtgccatg cattcacatg | 60 |
| acnnocatcc tcatatgcta accagcttct ttaagatgta tggagtgact cgcancgggg | 120 |
| ccaognanatt gaggaactnn cgaatggaga agaccacatn ctngtgcacn nngnttcacn | 180 |
| nccttcgggt ncagctnagg cncgagacct tngatccgga acattgcanc gtctctgcct | 240 |
| ccaaagcttg caagcagcag cctgctctcc tccagtggcc gccctgcacc cggaaccaat | 300 |
| aaataaatct taaaaaaaaa aa | 322 |

<210> 1817
 <211> 387
 <212> DNA
 <213> Mus musculus

<400> 1817
agaatgacag aagatgctct gcgcctgaat cttttgaaga ggagtttga cccagcagat 60
gagcgagatg atgttctggc aaaacgactg aaaatggagg ggcattgagg catggaacgg 120
ctgaaaatgt tagcactgct caaaaggaaa gatttggcaa atcttgagg gccgcatgag 180
ttacctacta agcaagatgg cagtgggtgc aagggttatg aagagaaact taatggaaat 240
ctcaggcctc atggagacaa caacaggact gctggaaggc ccggcaaaga aaacatcaat 300
tgatgagcct gtggatattg agtgctagac gggaggtatg ngaacagttt tanctgcctt 360
taanggattt gggctgtctt aaaaagt 387

<210> 1818
<211> 160
<212> DNA
<213> Mus musculus

<400> 1818
ccccccccc agccaaagca gggcatgttc catgangacn ggatcanctc anttgagggg 60
gcaaaaaaag ggganccttg gctggttntt atganaaaaa cttctcgnat ctggnccttg 120
anaaagaaag gccttttatg acaattgggg gaacatacaa 160

<210> 1819
<211> 121
<212> DNA
<213> Mus musculus

<400> 1819
ttttcacatc cctgaaaaag agnctccctt ggagccaaag acttaagaga attggacaca 60
aaaacccgca aagangtgga atcaacagtt ngtggggcaa gcaaaaactt gtccttcttg 120
g 121

<210> 1820
<211> 384
<212> DNA
<213> Mus musculus

<400> 1820
tgctgtgacc tgatagcggn tcngnagcac atgggaaggg accccgccag gggcggtngc 60
cctcctcggc gctggccgnc ggtgctcaag cacagntcat cgtngccgcc cganagegcc 120
caagtccaag gctaccgact tcaaccngg ccgtacatta ccattgcngc ttctggacgc 180
ctaccgcacc acccggttc caggctacca acttcgggag cgcggtngca aanaaagtca 240
acngcccatg attgnnaana aactggaagc cacctgggnc tgnnnaatga atatcattna 300
cgncaaactt tgacttcaaa ngtcgccggc ccaactttaa caaagcttgg cnaccatttt 360
ttccttntgg ggctttttta cctt 384

<210> 1821
<211> 620
<212> DNA
<213> Mus musculus

<400> 1821
ttggtgagcc gagagggatc aggtgaggca agtatggggc angctgttga ggagactttg 60
ggctctcact ctcggggagg tgatggatcat tcttggaact cctcccccca caccagcct 120
ttctcccat gagctcatca cctcttcac ctatcccagg taccacggcc ctttaaggcag 180
ggcagccttg agctggatgt ggctgcttgc aacttgtctg tgctgtttt taaaattggg 240
acagggtctc atgtagccca ggttggctcn cagctcactg ttagccaaag actggctgtg 300
gacttcgat cctcctgcct ccacttctgg agtgccagta tctgtatcac aggggtgtac 360
caccaccacc tgtottgaaa attgccatga atgacatagt tcacatagcc atgggtggcc 420
aaggacactc ctgggtactc ttactgcac ttcccttgaa ggactttgct aaaatcctgt 480
ggagaaataa gaaaaatcca atacggnaca aactgnattt atatgtgtct gtgntgtcaa 540

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tgagggggtc | tgtnacctcc | tnttccaann | gtgggggtgct | gtctgacctc | tttnttntnc | 600 |
| aagcccacgc | caccgcccga | | | | | 620 |

<210> 1822
 <211> 260
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 1822 | | | | | | |
| ctaggtgagc | agtggactcc | cattgagcct | aaacccaagg | agcggccaca | ggttgagggc | 60 |
| accatcaagc | aaccacctac | caacccccca | ccccggccac | ccgcagaggt | ccgaaagaag | 120 |
| ccgagttagg | gtgaagagga | ggcagcctca | gctggaggac | cccaggttaa | cccaatgcca | 180 |
| gtgacagatg | aggctcgtgtg | accttcagtg | gctgtctaca | gctcctgctt | gagttttctgt | 240 |
| ggagttgtcc | ccccccccc | | | | | 260 |

<210> 1823
 <211> 593
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 1823 | | | | | | |
| caccacagaa | cggagatoga | tcatcntcaa | anattncnt | gagtgaccct | gcctnnnagc | 60 |
| tatgtcgata | actggctagg | natcttnata | actngttcag | atntgaatgt | gctggcccca | 120 |
| nnctcagaat | ggaggtonga | nactctggat | gagancgtct | ccacgtgttg | aaggaagggc | 180 |
| annnngctca | agattcntcc | aanacnacct | gatcanggcc | ntcnagaact | naaagccctg | 240 |
| ggctctggat | tcngcatcnt | ccctgtggga | gcactacctc | anccantctg | ttccgcnnag | 300 |
| ctcaatatgg | atcanctntt | gtgctgcagc | nggncgacaa | aaacggttng | tgaccgtcag | 360 |
| tganatccca | ccagtcttaa | tgggagaccg | aacgacncgg | cnantttctg | aacacctgct | 420 |
| ngatggaatg | ancggcctgc | gttggtatctg | ctgctecnag | ggangccccc | ctactngctg | 480 |
| ccntctcttt | tactcagaac | tctaccccaa | ggagatnttt | cctnaagnag | ccanagaaan | 540 |
| cttcccntga | atnantttgc | angggtnaaa | ccaaccaggcg | caacaatcct | gtt | 593 |

<210> 1824
 <211> 395
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1824 | | | | | | |
| ctccgatgag | acgccnngtt | gtacctacgc | tctctngact | tgggttgatc | tgactgctgt | 60 |
| cttgggtatc | acgntgaag | acatgnctgt | gtcntgnctg | antaatggac | tcgnccgtct | 120 |
| ggacaactat | cagaaaactc | caagcccaca | catctgaacc | tactggcant | ancctgaang | 180 |
| atacngcacc | tgggagccgt | tgaaaagggt | ggattgtctg | anaacctgga | tctgtttggc | 240 |
| tgtgaagtcc | taaccggant | gattaccgan | aactgtcttc | ngctcctgcc | cactntccat | 300 |
| ctggatggct | ataacgagaa | gacaggaacc | nctganccat | tggagtnata | tgtaaagaac | 360 |
| cccgaaccaa | atggacagtg | gatgggttga | ctcga | | | 395 |

<210> 1825
 <211> 421
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1825 | | | | | | |
| ggtttgccag | aatcaaaaat | gtgtagcaga | cactttcttg | ggctatgatt | gcaacctgga | 60 |
| aaaatgcaac | caccatgggtg | tatgtaataa | caagaagaac | tgccactgtg | acccacata | 120 |
| cttacctcca | gattgtaaaa | gaatgaaaga | ttcatatcct | ggcgggagca | ttgatagtgg | 180 |
| caacaaggaa | agggtgaac | ccatccctgt | acggccctac | attgcaagtg | cttaccgctc | 240 |
| caagtctcca | cgggtggccat | ttttcttgat | catccctttc | tacgttgatg | tccttgctct | 300 |
| gattgggatg | ctggtaaaag | tctattccca | aaggatgaaa | tggagaatgg | atgacttttt | 360 |

aagccaaaaa ccatttttnaa agtgaangtg aatccaaaga ctantctgga cagattccac 420
a 421

<210> 1826
<211> 234
<212> DNA
<213> Mus musculus

<400> 1826
agacacaacc ccttccccgg gatccagntn cactccngta tctctnataa tccgttngct 60
atcanaaacc gagatgaact gnnatgaanna caggacttcc atagtctggt catntactcg 120
accagagtn ccttntccag gttattgtnt accaatattgc gacgttccat ctctgtctgn 180
ttctgntcac caatgaagtc atgccgctgc aggtatcagc tctaaaaaaa aaaa 234

<210> 1827
<211> 332
<212> DNA
<213> Mus musculus

<400> 1827
cctagccaga ctggcttaga ccattccgcca ctgagttgga gccacctgct gtgctgattc 60
tcatncatct cctttgatat gccactacct gcctgaggct taaccggctc tncaagatct 120
tccggagtta gctgcgaact gtgactctac taaactgaga gttcctacta annngctgat 180
ctgacanctt naaaggaact ttgngtgacg gggaatgggc ctccccctctt ctttatagag 240
cangttingct gacattanag ttgaacctga gcaggaaaaa cccaacaaan tggaacaata 300
aatctctctt gcttttgcac tgattcccaa aa 332

<210> 1828
<211> 498
<212> DNA
<213> Mus musculus

<400> 1828
actgaggata tgacattaca actgccgctg ccagcaccac agagtaagca gtccagatag 60
ccgccacccg aggggtcggg agcgtctgct ccacttgctt gatgctggca gtggaaccca 120
ccatggatgg ggacttcctt ccacatgagc tcccacccc tggaggtggc atccagctac 180
agaaccgact cctgcactgt ccttggtggg gcagtttctc accgtctttg taccacacct 240
tctccagtga aaaccaacag ttctgtgggt ccacccatt ccttggtggc cagtcttgcc 300
ctgaaaccag ctaccccacc acaagccacc gtcccagct tntntccaa gaacaagcga 360
cttttctnaa cttctggnaa aggggaagcc antgctgggg cactgnaaac ccgangctgg 420
agccgcaatg gtgaactgaa caaataggga aaagctgaac acaacaccca tcaacactgn 480
atgggtggga gcaaacctt 498

<210> 1829
<211> 377
<212> DNA
<213> Mus musculus

<400> 1829
tgtttttctc ggacagaccg attactcaga caaaaacgga tgtgccaagg atgccagtcc 60
aagacttctg aagggcagtt ttctctatag gcacaagggg ccctaggtgg tgggagtgt 120
gaggagaggc tntggaanag catanccctg tgttctgacg gtnacnaccan cactccctct 180
gaacctgtcc cccttcttag aggaccagcc ccaggttagc anaagagcgt ctgaggacat 240
cggntncaaa gcccacactc tgtaaccagt ctgaggctat gaggtatncc agggacacct 300
gcagcattct tgggcaagg agctggtntc tgaanctcag ctgagatgag gtggngactt 360
naaggtgcaa tgacca 377

<210> 1830

<211> 216
 <212> DNA
 <213> Mus musculus

<400> 1830
 atcgaaggat tccttcagtn acattcgact agatgaatgc cagggacccc cacttcagtg 60
 ttgacctgacc acctcacccc ctattccagc cttgttgac tccggaaact tgagtccct 120
 gntgtcctgg ttctccaac tctgggaact ttgctcncca ctcttaact nagnagacttt 180
 gaacctnaat aaatcctggn cccactttt aaaaaa 216

<210> 1831
 <211> 359
 <212> DNA
 <213> Mus musculus

<400> 1831
 ggagggtcact gacaatgtca tccacancat ctctgatgct gttacccatg cggccaacgc 60
 ctgggatgac tgtngacagc tngcctgtct accagcatgg ntggcccttc ctgacggtna 120
 ntcattgagng tgnnnngtgg ccgngtatat tgactgggtgc agttctcaga gctgccgcat 180
 ntgaagctat cctgcagtta tggatgagac gagccagttt acttgacaat gtgtcctcat 240
 ttacattctt ctgtaaagaa aataagttca taggctatgt gtgtgtgtgt gtgtgtacac 300
 atatatatgt ntatcattgg taaaagaaaa ccnatgcctg aatctacact gtaaactctg 359

<210> 1832
 <211> 401
 <212> DNA
 <213> Mus musculus

<400> 1832
 ccacaggctc ggccaggcca gcatgggtgga ccacctgctt ccagtggacg agaccttctc 60
 gtcaccgaaa tgcctcagtg gttacctagg ggacaggctg gccagccggc agccatacca 120
 catgttgccc tcgcccctct cggaggatga cagcgatgtc tccagccctt gctcttggtc 180
 cagccctgac tcgcaagcct tctgttctct ctacagtggc ggtccaggcc ctgaggccca 240
 gggcagcatc ttggatttcc tctgttctct ggcacactg ggcagtgggt gtggcagtgg 300
 aggtatttga gatagcagtg gccctgtgac ctggggatca tggaggagag ccttttgtgc 360
 cttntaaagg gaggaacatt cntgnttccc tgaatttctt g 401

<210> 1833
 <211> 402
 <212> DNA
 <213> Mus musculus

<400> 1833
 actgaggtaa ctggggccct catcttgttg tcatgaggag ttgtaacata ctcaagtggg 60
 aactcgagtt gaaacgctgg tgcctggcc tcaaaactct ttcttatgtt ggcagccaca 120
 gagaactcaa agcaaagaga caggagtggc ccgagcccaa taacttccac atctgcatca 180
 cgtcctataa gcagttcttc aggggttaca ctgccttctc aagggtgcac tggaaatgcc 240
 ttgttgttga cgaaatgcag aggggtgaag gcatgactga gcggcactgg gaagccatct 300
 tcaagctgca gaggtctgac tgtaccaag tgttctgtct tcaaatctcc agctgttctt 360
 acctaaagat tcattaaaga aatttaaact attgcataca ta 402

<210> 1834
 <211> 240
 <212> DNA
 <213> Mus musculus

<400> 1834
 gaacctgggc ttacagttcc tcctacatga ccgagatctg atcagccaac ccgcgcattg 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctttttgtgc | ctngcactgc | agtnacaggg | ncntttttat | tntccnanac | ttatnactca | 120 |
| natgntaccc | tttntgatg | ttcttttcgg | tnaaggaggg | catgtttttt | ggcaagggna | 180 |
| ccncnangna | gcactcgtac | tnattnancc | tgaagaaaca | cagtttatat | aaccgtagt | 240 |

<210> 1835
 <211> 335
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1835 | | | | | | |
| gaggtttcctg | atgtgagagg | gtagccccc | atcatggnag | gtgcttcagt | gcgatggctg | 60 |
| tgactttccga | gccccatctt | acgaagatct | caaggcacac | atccaggatg | tccacacggc | 120 |
| gttctttacag | ccaactgatg | ttgccgagga | caatgatgac | gagccactat | ctgggtccat | 180 |
| gaatgctagt | aatcagacag | aggtggagtt | ctcttctata | aaggatgagt | ttgtgattgc | 240 |
| agaggattta | ccaggtcaaa | gtgcaactgc | attggggagc | ggaggttact | atggccacag | 300 |
| tccaggatat | tacggtcagc | atattacccc | taatc | | | 335 |

<210> 1836
 <211> 266
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1836 | | | | | | |
| ggagaaataa | aaacagaaa | atctccagaa | agaagccatg | gtaagattca | aggtttcaca | 60 |
| gtccaagcta | atgctgtgg | acacttgacc | aagtgatctg | agaaaattgg | atttctggca | 120 |
| aaacaagtgt | acctagactc | aggcaaggg | ggagaacaga | gggcgactag | attaaatgga | 180 |
| aagaatgccc | aggcatccca | ttgcctccct | ttgacgttcc | agaacttcat | caagacagt | 240 |
| atgagctaca | tgtacacctg | gaggag | | | | 266 |

<210> 1837
 <211> 238
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1837 | | | | | | |
| tgactatttc | cacgtgctn | ntttctccna | aggggogttt | antaacctgc | ctctnaagag | 60 |
| tgccctcccc | catgntcct | tntctaaagt | cccctgccc | gnccccccag | gggctctgcc | 120 |
| aaactgtntt | gccccattg | tnctaanaag | gacgtactg | ttggccgggt | tntgatagaa | 180 |
| cattatgtng | tcnnaggcaa | cnttgggggg | nnccccccan | aggacttttt | attaaaaa | 238 |

<210> 1838
 <211> 281
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1838 | | | | | | |
| tataagtttg | gggtgaactt | cagggaccag | ncctnacaca | ccganggatg | ctccctcccc | 60 |
| ccagtcttgg | aggcaatctg | cacagagcca | gtctgcacac | cagagaccag | aggccgcagg | 120 |
| tcaagctccc | ggntgtntaa | nagggaggtc | tccagccttc | tgaattacac | gcaggacatg | 180 |
| acaggagatg | gaaacagaaa | tgatgaagta | natgatggga | atggcttctg | atattttaat | 240 |
| gccaaagctc | accctgaga | ccaaggacac | caggacgcgc | t | | 281 |

<210> 1839
 <211> 164
 <212> DNA
 <213> Mus musculus

<400> 1839

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccctgctgga | tgatccaac | ntggtcttta | nncttntggn | acctnctt | gtcaaacagg | 60 |
| atctgtgga | tagctcgnc | cncatnattt | taataacctn | tactacatca | cagtnangaa | 120 |
| atcaagncgc | tacgaatcnc | accttcgtta | acctcctagc | gtca | | 164 |

<210> 1840
 <211> 220
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1840 | | | | | | |
| ccctccccc | cctgaacctg | cttactcacg | ggtgnagctt | gccgctcaat | cagttctgcc | 60 |
| acagccact | gctggagctt | gccgctttgc | tgtnngaag | ccatcacgtg | ttcacctgca | 120 |
| accttactcc | tagattattt | ggcggaatc | ggccccccc | ccttccttca | taacggagt | 180 |
| ctggaatagt | aaaaattgaa | ccttgagcag | aaaaaaaaa | | | 220 |

<210> 1841
 <211> 125
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1841 | | | | | | |
| tcagaagcgg | accacgattc | gntnttcttt | tgtancagct | tctgaagaca | aaaagcagct | 60 |
| taaaatctaa | ctaaggaata | aaaacactgc | ttactaaata | aactacttgt | ctctaaaaaa | 120 |
| aaaaa | | | | | | 125 |

<210> 1842
 <211> 243
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1842 | | | | | | |
| agatgaaagc | acagtgggtc | tattctgctc | ttgaacagtt | caggaagagc | catctgcaat | 60 |
| actgacatca | tcagtcacct | attcaccacg | ctgaccgaga | gaccaacctt | tgaagaattt | 120 |
| ataaaaaaga | caaccgagca | ataacaaaga | ctaataagct | aaatcaggct | ggagagattt | 180 |
| cagactgtga | aaagcagatg | gttaaattag | atctgttggg | tcttggtact | aaataaaaaa | 240 |
| ata | | | | | | 243 |

<210> 1843
 <211> 436
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1843 | | | | | | |
| gatattggctc | tgaagcccat | gaacggaag | anaaanggga | tcaacgcctt | gtgaagaanc | 60 |
| ccctatagtc | agaaaactgn | ccatctgcan | anntgagcga | naacangcag | cccctggang | 120 |
| tgggcagncc | agggcaggat | gcacancnt | nttgngatga | anggactang | aagggccctt | 180 |
| tgnanccctc | caaacaggtg | tgctccocan | aagggggggc | gctcccagcc | agcccntgnt | 240 |
| ncnngaactt | ncctatcnng | cccncccttc | aggnccttgn | cgtccagtcc | agccagcccc | 300 |
| aggggcccct | cccagcccca | gggcagccct | gccagcccca | gcgggcccgc | ccgggtcagc | 360 |
| gtgcttggcc | ccatcgatca | cttctaggct | tgagacagcc | ctgccagccc | cggcgcccac | 420 |
| ttctgggccc | tggtca | | | | | 436 |

<210> 1844
 <211> 199
 <212> DNA
 <213> Mus musculus

<400> 1844

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gactgagatc | ctctgattcc | aggtaccata | caaagatggt | tacaagaaat | gcagaggtaa | 60 |
| aacagctgct | ccgaaagcca | accttttgtg | tccttaacgg | cagagtgtca | gttaaatacgc | 120 |
| cccagcgccc | ggaagctttt | attcatgttt | acactgctgt | gagtagttat | aaataaataa | 180 |
| accaataaat | aaatgctg | | | | | 199 |

<210> 1845
 <211> 105
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1845 | | | | | | |
| gactgatgga | gcgcagaaga | gcccgaagga | agaagtggaa | ttgcagatgt | ctagtcaacc | 60 |
| aagcacggct | cctgcaaagg | ctaaagcaac | ggggaaaaaa | aaaaa | | 105 |

<210> 1846
 <211> 111
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1846 | | | | | | |
| caggtgtggc | cacagccaac | tgcnctactt | gagcatgggt | ggctccagat | ntnctccttc | 60 |
| aaactggant | nagctggncc | tcanaaaaac | ttntcccca | taaccagctt | c | 111 |

<210> 1847
 <211> 289
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1847 | | | | | | |
| aaagctaagt | ctcatcctca | tcaaagaaga | gnnccttac | ttcanacaga | gaengettca | 60 |
| anagccnncn | gatgatctaa | cacagagaac | actoggccag | cgttggtgaa | ccnncngat | 120 |
| gcaacanccc | ctgccctgag | aactcnnnnc | ngaggngagg | gtgngangna | tgngggagnc | 180 |
| agtgagcctg | gatgttggct | gtgaacattt | tccactgac | tgatcttcca | aaagttctga | 240 |
| gttcaaatcc | caccanccac | atgnnnatct | nacaccctct | tctggtgtg | | 289 |

<210> 1848
 <211> 257
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1848 | | | | | | |
| atgaccacac | gcagatcagt | actganggaa | gctcanggtc | gattctatct | natggggaag | 60 |
| gaaaatngnc | ataattgctc | cctggacatc | agagatgcac | agaaaatcga | cacagggacg | 120 |
| tacttcttca | gattggatgg | gtctgtgaaa | tacagttttc | agaagtcaat | gctatctgag | 180 |
| ctngtgatag | ctntgactga | gggccctaac | atccaagnca | catntaccct | ggggtntggc | 240 |
| aattctacca | aactgct | | | | | 257 |